

# DOCUMENT RESUME

ED 052 020

SE 011 315

TITLE The Federal Program in Population Research.  
Inventory of Population Research Supported by  
Federal Agencies During Fiscal Year 1970.

INSTITUTION National Institutes of Health (DHEW), Bethesda, Md.;  
National Inst. of Child Health and Human Development  
(NIH), Bethesda, Md.

PUB DATE 31 Dec 70

NOTE 76p.

AVAILABLE FROM Superintendent of Documents, Government Printing  
Office, Washington, D.C. 20402 (\$0.70)

EDRS PRICE EDRS Price MF-\$0.65 HC-\$3.29

DESCRIPTORS Biological Sciences, Citation Indexes, \*Directories,  
Ecology, \*Federal Aid, \*Population Trends,  
\*Reference Materials, \*Research Projects, Social  
Sciences

IDENTIFIERS Public Health Service

## ABSTRACT

This inventory of federally supported population research activities for fiscal year 1970 updates and expands a previous report, The Federal Program in Population Research, which covered projects supported during July 1, 1968 through April 30, 1969. Its purpose is to provide timely and comprehensive information on current population research activities. The definition of population research used in determining the scope and relevance of projects reported is represented by the classification scheme utilized in the format: biological sciences, animal behavior and ecology, social sciences, and institutional programs. Thirteen federal agencies support the 664 projects included in the inventory with a funding value of \$163 million. Each project is classified within the category most closely describing the principal focus of the study, citing title of the research project, author, supporting agency, method of support, grant number, amount of funding for fiscal year, starting and completion dates, and total support for duration of the project. An alphabetical index of investigators, a classification outline including all sub-categories, and two fiscal tables of projects by agency and classification scheme are appended. (BL)

ED052020

# THE FEDERAL PROGRAM IN POPULATION RESEARCH

## Inventory of Population Research Supported by Federal Agencies During Fiscal Year 1970

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December 31, 1970

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### ACKNOWLEDGMENT

Appreciation is expressed to the many individuals whose diligent efforts have contributed to this report. The cooperation of the representatives of all the Federal agencies who were queried resulted in the comprehensive reporting of projects included in the inventory.

ED052020

# **THE FEDERAL PROGRAM IN POPULATION RESEARCH**

**Inventory of Population Research  
Supported by Federal Agencies  
During Fiscal Year 1970**

**Prepared by  
Center for Population Research  
National Institute of Child Health and Human Development**

**December 31, 1970**

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Public Health Service                      National Institutes of Health**

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## INTRODUCTION

### Summary

During fiscal year 1970 the Federal Government expended \$163 million for activities directly or indirectly related to population research. This total represents funding reported by 13 Federal agencies for 664 research projects included in this compilation. Of this amount \$129 million was spent for data collection activities.

### Background

This inventory of federally supported population research activities for fiscal year 1970 was prepared by the Center for Population Research of the National Institute of Child Health and Human Development, National Institutes of Health, at the request of the Deputy Assistant Secretary for Population Affairs of the Department of Health, Education, and Welfare. The purpose of the report is to provide timely and comprehensive information on current population research activities to meet the need of those concerned with this growing and increasingly significant field. This survey updates and expands upon the previous report, The Federal Program in Population Research, which covered projects supported during July 1, 1968 through April 30, 1969, and was prepared for the Federal Council for Science and Technology by its Ad Hoc Group on Population Research.

### Definition and Format

The definition of population research which was used in determining the scope and relevance of projects reported in the inventory, is

represented by the classification system shown in Appendix A. This scheme also served as the basis for the format and organization of the projects listed in the report.

The classification scheme comprises four major groupings:

1) Biological Sciences; 2) Animal Behavior and Ecology; 3) Social Sciences; 4) Institutional Programs. The first three headings indicate the substantive nature of the research; the fourth includes awards to institutions conducting research in various areas.

#### Coverage

A total of 13 Federal agencies, identified in the Appendix B table, furnished information on the support or conduct of population research. These agencies submitted information on the research projects which, in their judgment, fell within the scope of population research as defined by the classification scheme. They were also encouraged to include projects with only partial efforts in population research. In addition to these projects, institutional program grants which cover a number of substantive research fields in population are listed.

A total of 1240 projects, submitted by the Federal agencies, were reviewed for relevance to population research. This analysis yielded a total of 664 projects which were included in the inventory; the remaining were excluded because they were not considered to be sufficiently relevant. The projects included were funded in the estimated amount of \$163 million. Of this amount \$129 million was spent for data generation and compilation activities by such agencies



as the Bureau of the Census, Department of Commerce; Bureau of Labor Statistics, Department of Labor; the National Center for Health Statistics, Department of Health, Education, and Welfare; and foreign organizations supported by the Agency for International Development, Department of State.

All projects listed in the inventory were active during fiscal year 1970, notwithstanding the lack of current funding information for some of them. In the case of intramural research, conducted by the staff of the supporting agency, fiscal data were generally not available.

#### Description of listings

Each project in this inventory is classified within the category or subcategory which most closely describes the principal focus of the study, and is listed once. Within the category and subcategory, the citations are arranged alphabetically by the name of the principal investigator. For some of the projects, complete information was not available. To facilitate the use of the listing, each citation has been assigned an index number which appears in the left hand column.

A complete citation provides the following information:

- a) title of the research project (subtitles or descriptors have been added to indicate relevance or to provide an expanded description).
- b) name and institutional address of principal investigator(s).
- c) supporting agency
- d) mechanism of support

- e) grant, contract or other identification number assigned by supporting agency.
- f) amount funded for fiscal year or term of the project
- g) starting and completion date of the project
- h) total support for the full duration of the project

An alphabetical index of the investigators included in the survey follows the citation listing. This listing has been keyed to the index numbers previously noted.

Two fiscal tables are shown as Appendices B and C. Appendix B is a summary tabulation which indicates (for each agency) the number of projects included in the inventory, the number for which funds have been reported, and the corresponding total amount of funds. Appendix C provides this information arranged according to the classification scheme.

## BIOLOGICAL SCIENCES

**MULTIPLE OR UNSPECIFIED**

- 1 STUDIES ON COMPARATIVE CYTOLOGY (oocyte, fertilized egg, and oviduct)  
Anderson, Everett Massachusetts, U of Amherst, Mass  
DHEW Grant HD-4924 \$47,671; 09/61-12/74 \$463,516
- 2 STUDIES IN MAMMALIAN REPRODUCTION (gametogenesis, fertilization  
and preimplantation development)  
Blandau, Richard J. Washington, U of Seattle, Wash  
DHEW Grant HD-3752 \$173,329; 01/69-12/73 \$792,142
- 3 STUDIES ON REPRODUCTION OF THE TALAPOIN MONKEY  
Clewe, Thomas H. Delta Regional Primate Ctr New Orleans, La  
DHEW Grant RR-0398 \$36,157; 05/68-04/71 \$102,255
- 4 EXPERIENCES WITH A LARGE BREEDING COLONY OF RHESUS MONKEYS  
Di Giacomo, Ronald F. NINDS San Juan, P.R.  
DHEW Intramural NDS(I) 70-LPP 1818
- 5 RESEARCH ON HUMAN REPRODUCTION AND CONTRACEPTION  
Dusitsin, Nikorn Chulalongkorn U Bangkok, Thailand  
AID Other 493-11-580-209 \$63,900; 07/68-06/70 \$126,600
- 6 EXPERIMENTAL STUDIES ON GAMETOGENESIS & REPRODUCTION  
Fawcett, Don W. Harvard U Boston, Mass  
DHEW Grant HD-2344 \$33,175; 06/66-05/71 \$187,041
- 7 MATURATION, METABOLISM AND AGING OF GAMETES  
Foote, Robert H. Cornell U Ithaca, N.Y.  
DHEW Grant HD-3471 \$43,935; 09/62-08/71 \$278,549
- 8 MULTIDISCIPLINARY INVESTIGATION OF CONTRACEPTION

- Fromm, Eli Drexel U Philadelphia, Pa  
DHEW Contract (NICHD) NIH 69-2189 \$38,437; 06/69-06/71 \$154,893
- 9 SUPPORT OF THE OREGON REGIONAL PRIMATE RESEARCH CENTER  
Holman, Charles N. Oregon, U of Med Sch Portland, Oregon  
DHEW Grant RR-0163 \$350,133;
- 10 CONTROL MECHANISMS IN REPRODUCTION AND DEVELOPMENT (gametogenesis  
fertilization, preimplantation development)  
Jacobson, Antone G. Texas, U of Austin, Tex  
DHEW Prog Proj HD-3803 \$268,334; 11/68-10/71 \$782,604
- 11 PRIMATE RESOURCE FOR STUDIES IN REPRODUCTIVE PHYSIOLOGY  
Knobil, Ernst Pittsburgh, U of Sch of Med Pittsburgh, Pa  
DHEW Grant RR-0298 \$112,925; 05/66-04/73 \$863,326
- 12 PRIMATE RESOURCE STUDIES IN REPRODUCTIVE BIOLOGY  
Mastroianni, Luigi Pennsylvania, U Sch of Med Phila, Pa  
DHEW Grant RR-0340 \$100,156; 01/67-12/73 \$706,769
- 13 OBESITY, WEIGHT REDUCTION & REPRODUCTIVE PERFORMANCE  
Mickelsen, Olaf Michigan State U East Lansing, Mich  
DHEW Grant HD-4502 \$27,481; 12/69-11/72 \$65,723
- 14 STUDIES ON HUMAN REPRODUCTION AND CONTRACEPTION (sperm transport,  
preimplantation development)  
Moghissi, Kamran S. Wayne State U Detroit, Mich  
DHEW Prog Proj HD-3416 \$209,233; 03/68-02/71 \$604,636
- 15 ION TRANSPORT DURING DEVELOPMENT OF R. PIPENS EGGS  
Morrell, Gene A. Yeshiva U New York, N.Y.  
DHEW Grant HD-5093 \$48,586; 01/63-12/74 \$410,021
- 16 REPRODUCTION AND DEVELOPMENTAL BIOLOGY (gametogenesis, gamete  
transport, fertilization and preimplantation development)  
Noyes, Robert W. Hawaii, U of Honolulu, Hawaii  
DHEW Prog Proj HD-2066 \$72,914; 03/66-06/72 \$307,875
- 17 STUDIES ON EARLY REPRODUCTIVE PROCESSES IN MAMMALS  
Odor, D. Louise Virginia Commonwealth U Richmond, Va  
DHEW Grant HD-4827 \$13,095; 08/69-01/71 \$13,095
- 18 STUDY OF BIOLOGICAL PROFILES OF SELECTED PRIMATES  
Olson, Stanley W. Southwest Fdn Res and Educ San Antonio, Texas  
DHEW Grant RR-0451 \$258,000; 09/68-08/71 \$821,074
- 19 BASIC SCIENCE STUDIES ON INFERTILITY IN RATS (a variety of studies  
on predominately male subjects)  
Stanley, Allan J. Oklahoma, U of Oklahoma City, Okla  
DHEW Grant HD-3909 \$44,390; 01/69-02/72 \$141,841
- 20 EFFECT OF MATERNAL AGE ON REPRODUCTIVE CAPACITY  
Talbert, George B. New York, State U of New York, N.Y..  
DHEW Grant HD-2014 \$12,936; 02/66-01/72 \$66,780
- 21 PHYSIOLOGICAL AND PHARMACOLOGICAL STUDIES OF REPRODUCTIVE PROCESSES  
IN PRIMATES  
Tullner, William W. NICHD Bethesda, Md  
DHEW Intramural HD-RP-1 \$85,000;

- 22 RESEARCH IN REPRODUCTIVE BIOLOGY  
Visutakul, Pachara Siriraj Hosp & Med Sch, Mahidol U Thailand  
AID Other 493-11-580-209 \$4,500; 07/68-06/70 \$24,500
- 23 SUPPORT FOR THE DELTA REGIONAL PRIMATE RESEARCH CENTER  
Walsh, John Tulane U New Orleans, La  
DHEW Grant RR-0164 \$268,000;
- 24 REPRODUCTIVE BIOLOGY OF FILIPINO WOMEN  
/ Philippines, U of Quezon City, Philippine Islands  
Other ; 11/69- /72-

#### EMBRYONIC DEVELOPMENT OF THE REPRODUCTIVE SYSTEM

- 25 CYTODIFFERENTIATION OF STEROID-SECRETING CELLS (including in-vitro  
production of androgenic hormones, by fetal guinea pig testis)  
Black, Virginia H. New York U New York, N.Y.  
DHEW Grant HD-4005 \$17,758; 06/69-05/72 \$49,751
- 26 ORIGIN AND POTENTIALITY OF EMBRYONIC SEX CELLS  
Blackler, Antonie W. Cornell U Ithaca, N.Y.  
DHEW Grant HD-1663 \$24,649; 08/65-07/70 \$112,946
- 27 STEROID METABOLISM BY THE REPRODUCTIVE TRACT DURING DEVELOPMENT  
Bloch, Eric Yeshiva U New York, N.Y.  
NSF Grant GB-14034 \$17,500 (est) 10/69-09/71 \$35,000
- 28 INFLUENCE OF HORMONES ON GENTIAL TRACT DEVELOPMENT  
Bloch, Eric Yeshiva U New York, N.Y.  
DHEW Grant HD-0420 \$49,843; 01/59-12/70 \$342,652
- 29 FETAL SEXUAL DIFFERENTIATION  
Goldman, Allen Seymour Childrens Hosp of Philadelphia Phila, Pa  
DHEW Grant HD-4683 \$37,500; 05/70-04/75 \$162,500
- 30 ONTOGENESIS OF HORMONE SYNTHESIS IN THE CHICK EMBRYO  
Woods, James Edward De Paul University Chicago, Ill  
DHEW Grant HD-2939 \$17,131; 05/68-04/71 \$49,395

#### DEVELOPMENT AND FUNCTION OF THE REPRODUCTIVE SYSTEM FROM BIRTH THROUGH PUBERTY

- 31 STUDIES ON THE NEURAL CONTROL OF PUBERTY  
Bar-Sela, Mildred Elwers Baylor Univ Coll of Med Houston, Tex  
DHEW Grant NS-04645 \$29,963; 06/63-11/69 \$162,304
- 32 PUBERTY - SEX ACCESSORY SENSITIVITY TO TESTOSTERONE  
Hilton, Frederick K. Louisville, U of Louisville, Ky  
DHEW Grant HD-3813 \$16,058; 11/68-10/72 \$51,833
- 33 CONTROL OF GONADAL FUNCTION IN PREPUBERAL RATS  
Ramaley, Judith A. Indiana U Bloomington, Ind  
NSF Grant GB-17438 \$16,000; 02/70-02/71 \$16,000

## FEMALE FERTILITY; ESTROUS AND MENSTRUAL CYCLES

### Multiple or unspecified

- 34 ANALYSIS OF CELL TYPES IN FEMALE REPRODUCTIVE TRACT (oviduct and ovary)  
Goeringer, Gerald C. Georgetown U Washington, D.C.  
DHEW Contract(NICHD) NIH 69-2206 \$36,135; 06/69-06/71 \$67,484
35. UTERINE BLOOD FLOW AND CHANGES IN PREGNANCY  
Greiss, Frank C. Jr. Bowman Gray Sch of Med Winston-Salem, N.C.  
DHEW Grant HE-3941 \$43,030; 12/58-01/73 \$558,291
- 36 STATISTICAL STUDY OF REPRODUCTION AMONG ESKIMO WOMEN  
Maynard, James E. Arctic Hlth Res Ctr Anchorage, Alaska  
DHEW R. Agrent(NICHD)-0006 \$40,625; 09/66-06/70 \$130,375
- 37 EXPERIENCES WITH A LARGE BREEDING COLONY OF RHESUS MONKEYS  
Myers, Ronald E. Lab of Perinatal Physiology San Juan, P.R.  
DHEW Intramural(NINDS) NDS(I) 70-LPP 1818
- 38 THE REPRODUCTIVE TRACT AND IRON DEFICIENCY  
Pritchard, Jack A. Texas, U of Dallas, Tex  
DHEW Grant HD-3604 \$35,158; 06/68-05/71 \$109,402
- 39 ULTRASTRUCTURAL STUDIES OF ESTROGEN EFFECTS  
Seal, Ulysses S. Minnesota, U of Minneapolis, Minn  
DHEW Contract(NICHD) NIH 69-2136 \$20,865; 06/70-06/71 \$20,865
- 40 PRIMATES IN CARDIOVASCULAR DISEASE (mapping out reproductive cycle in cebus monkey)  
Stare, Fredrick J. Harvard U Sch of Public Hlth Boston, Mass  
DHEW Grant HEP-10098 \$15,000(est); 06/65-05/72
- 41 RHYTHMOMETRY OF GENITAL BLEEDING AS A FUNCTION OF HUMAN REPRODUCTION  
Treloar, Alan E. NICHD Bethesda, Md  
DHEW Intramural HD-RP4(7)(c) \$52,000;
- 42 MENSTRUATION AND OVULATION IN THE MONKEY  
Vollman, Rudolf F. NINDS Bethesda, Md  
DHEW Intramural NDS(CF) 68PR/OB-1625

### Ovarian factors

- 43 OVARIAN FEEDBACK HORMONES (estrogens, progestogens and possibly androgens) IN THE AVIAN OVULATION CYCLE  
Arcos, M. Agricultural Res Ctr, USDA Beltsville, Md  
USDA Intramural 0400290032 \$68,000; 04/68-04/73 \$193,000
- 44 LIFE CYCLES OF CORPUS LUTEUM AND HUMORAL MODIFICATION  
Baggett, Billy South Carolina, Medical U of Charleston, S.C.  
DHEW Contract(NICHD) NIH 70-2255 \$21,493; 06/70-06/71 \$21,493

- 45 LUTEOLYSIS: PHYSIOLOGICAL, BIOCHEMICAL AND HISTOLOGICAL  
(corpus luteum)  
Bartosik, Delphine B. Worcester Fdn Exptl Biol Shrewsbury, Mass  
NSF Grant GB-18068 \$25,000(est); 04/70-04/72 \$50,000
- 46 STUDY OF CHARACTERISTICS OF HUMAN MENSTRUAL CYCLE  
Bearman, Jacob E. Minnesota, U of Minneapolis, Minn  
DHEW Contract(NICHD) NIH PH-43-65-1014 \$40,298; 06/65-06/71 \$141,696
- 47 FUNCTIONING OF CORPORA LUTEA  
Brinkley, Howard J. Maryland, U of College Park, Md  
DHEW Grant HD-0739 \$22,409; 05/64-08/71 \$110,956
- 48 STUDIES OF THE MECHANISM OF LUTEINIZATION IN VITRO  
Channing, Cornelia Post Pittsburgh, U of Pittsburgh, Pa  
DHEW Contract(NICHD) NIH 70-2256 \$25,216;
- 49 THE MECHANISM OF LUTEINIZATION IN PRIMATES  
Channing, Cornelia Post Pittsburgh, U of Pittsburgh, Pa  
DHEW Grant HD-3315 \$14,462; 03/68-02/71 \$54,428
- 50 RESEARCH IN THE PHYSIOLOGY OF OVULATION  
Espey, Lawrence Lee Trinity U San Antonio, Tex  
DHEW Contract(NICHD) NIH 69-2126 \$51,493; 06/69-06/71 \$101,498
- 51 STUDY OF MAMMALIAN OOCYTE MATURATION  
Foote, Wilford Darrell Nevada, U of Reno, Nev  
DHEW Contract(NICHD) NIH 69-2127 \$24,323; 06/69-06/71 \$44,940
- 52 FOLLICULAR & LUTEAL REGULATION IN THE MAMMALIAN OVARY  
Greenwald, Gilbert S. Kansas, U of Kansas City, Kansas  
DHEW Grant HD-0596 \$36,187; 09/62-12/70 \$231,809
- 53 STUDIES OF THE ISOLATED, INTACT OVARIAN FOLLICLE  
Grob, Howard S. New York U New York, N.Y.  
DHEW Grant HD-1541 \$19,800; 06/65-05/71 \$104,229
- 54 GROWTH AND DEVELOPMENT IN HUMAN AND PRIMATE OVARIES  
Hertig, Arthur T. Harvard U Boston, Mass  
DHEW Grant HD-3630 \$35,066; 10/68-09/73 \$168,424
- 55 E/M OBSERVATIONS OF OVARIAN STEROID CELLS  
Koering, Marilyn George Washington U Washington, D.C.  
DHEW Grant HD-3087 \$20,633; 06/68-05/71 \$54,583
- 56 MECHANISMS OF FOLLICULAR RUPTURE STUDIES  
Mandl, Ines Columbia U New York, N.Y.  
DHEW Contract(NICHD) NIH 70-2252 \$28,300;
- 57 STUDY OF THE MECHANISM OF OVULATION  
Marsh, John M. Miami, U of Miami, Fla  
DHEW Contract(NICHD) NIH 69-2128 \$23,600; 06/69-06/71 \$45,951
- 58 PROTEINS INDUCED BY GONADOTROPIC HORMONES IN OOCYTES  
Merriam, Robert William New York, State U of Stony Brook, N.Y.  
DHEW Grant HD-3887 \$21,885; 11/68-10/70 \$49,100
- 59 HISTOCHEMICAL STUDIES ON VERTEBRATE OVARIES  
Nadkarni, Vinayak B. Karnatak U Dharwar, Mysore State, India

DHEW PL-480(Fogarty) 01-045-1

- 60 ANTI-LUTEINIZING ACTIVITY IN FOLLICULAR OVUM  
Malbandov, Andrew V. Illinois, U of Urbana, Ill  
DHEW Contract(NICHD) NIH 69-2135 \$45,635;
- 61 PERFECTION OF THE CYCLIC AMP ASSAY (role of AMP in uterine metabolism)  
Rinard, Gilbert A. Emory U Atlanta, Ga  
DHEW Contract(NICHD) NIH 69-2130 \$27,700;
- 62 HORMONAL AND BEHAVIOR DETERMINANTS OF OVULATION  
Rodgers, Charles H. Iowa State U of Science & Tech Ames, Iowa  
DHEW Grant HD-3985 \$14,453; 01/69-12/71 \$30,326
- 63 REGULATION OF OVARIAN FUNCTION - LUTEOTROPIC PROCESS  
Romanoff, Elijah B. Worcester Fdn for Exptl Biol Shrewsbury, Mass  
DHEW Grant HD-2637 \$59,705; 03/68-02/71 \$150,866
- 64 PHYSIOLOGY OF OVULATION  
Rondell, Paul A. Michigan, U of Ann Arbor, Mich  
DHEW Grant HD-3470 \$41,139; 09/61-08/70 \$179,623
- 65 CHANGES IN CORPUS LUTEUM REQUIRED FOR PREGNANCY  
Rothchild, Irving Case Western Reserve U Cleveland, Ohio  
DHEW Contract(NICHD) NIH 70-2310 \$53,313;
- 66 STUDIES ON THE REGULATION OF OOGENESIS  
Schuetz, Allen W. Johns Hopkins U Baltimore, Md  
DHEW Grant HD-3797 \$16,173; 11/68-10/71 \$52,415
- 67 ENVIRONMENTAL AND HORMONAL INTERPLAY OF OVULATION  
Schwartz, Neena Betty Illinois, U of Chicago, Ill  
DHEW Grant HD-0440 \$60,376; 05/62-04/73 \$404,599
- 68 DISTRIBUTION OF FERTILE AND STERILE COITUS BY DAYS OF THE  
MENSTRUAL CYCLE  
Vollman, Rudolf F. NINDS Bethesda, Md  
DHEW Intramural NDS(CF) 68PH/OB 1626
- 69 ENDOCRINE REGULATION OF THE ESTROUS ACTIVITY CYCLE IN THE RAT  
(use of sodium pentobarbital)  
Whitman, J.B. U.S. Vet Adm Hosp American Lake, Wash  
VA Intramural ZO-27594

Oviductal, uterine and vaginal factors

- 70 CELLULAR KINETICS OF FEMALE GENITAL TISSUES (vagina, uterine  
cervix and vulva)  
Averette, Hervy E. Miami, U of Coral Gables, Florida  
DHEW Grant CA-10192 \$27,815; 09/67-08/70 \$82,061
- 71 SPECIFICITY OF UTERINE RESPONSE TO OVARIAN HORMONES  
Barker, Kenneth L. Nebraska, U of Omaha, Nebr  
DHEW Grant HD-2851 \$26,445; 09/67-08/70 \$81,174



- 72      METABOLISM OF UTERINE TISSUES FROM THE RHESUS MONKEY  
Beatty, Clarissa H.    Med Res Fdn of Oregon    Portland, Oreg  
DHEW Grant HD-2837 \$24,979;    08/67-01/71 \$68,508
- 73      GLYCOPROTEINS OF MURINE ENDOMETRIAL SECRETIONS  
Bernfeld, Peter    Bio-Research Inst Inc    Cambridge, Mass  
DHEW Grant HD-2629 \$33,783;    01/67-12/70 \$117,627
- 74      NEURAL CONTROL OF MAMMALIAN OVIDUCT (sperm and egg transport)  
Black, Donald L.    Massachusetts, U of    Amherst, Mass  
DHEW Contract(NICHD) NIH 69-2132 \$14,840;    06/69-06/71 \$29,795
- 75      BIOLOGY OF THE OVIDUCT AND GAMETE TRANSPORT  
Blandau, Richard J.    Washington, U of    Seattle, Wash  
DHEW Contract(NICHD) NIH 70-2141 \$195,890;
- 76      CONTROL OF CILIOGENESIS IN THE RHESUS MONKEY OVIDUCT  
Brenner, Robert M.    Med Res Fdn of Oregon    Portland, Oreg  
DHEW Contract(NICHD) NIH 70-2146 \$14,831;    05/70-05/71
- 77      HORMONAL CONTROL OF OVIDUCT GROWTH IN RHESUS MONKEY  
Brenner, Robert M.    Med Res Fdn of Oregon    Portland, Oreg  
DHEW Grant HD-2753 \$31,727;    01/67-12/72 \$151,084
- 78      FACTORS INFLUENCING MAMMALIAN OVIDUCTAL SECRETIONS  
Brunton, William    Johns Hopkins U    Baltimore, Md  
DHEW Contract(NICHD) NIH 70-2046 \$40,000;
- 79      CONTROL OF OVIDUCT FUNCTIONS  
Dickey, Joseph F.    Clemson U    Clemson, S.C.  
DHEW Contract(NICHD) NIH 70-2164 \$65,408;
- 80      MEASUREMENT OF BLOOD FLOW IN THE MAMMALIAN OVIDUCT  
Dickson, William M.    Washington State U    Pullman, Wash  
DHEW Contract(NICHD) NIH 70-2144 \$13,996;
- 81      IMMUNOLOGY & ENZYMOLOGY OF PROTEINS & CONTRACEPTION (protein  
   composition of oviductal tissue and luminal fluid)  
Feigelson, Muriel H.    Columbia U    New York, N.Y.  
DHEW Contract(NICHD) NIH 69-2131 \$24,688;    06/69-12/70 \$55,396
- 82      PHYSIOLOGY OF THE OVIDUCT  
Feigen, George A.    Stanford U    Stanford, Calif  
DHEW Contract(NICHD) NIH 70-2157 \$40,793;
- 83      REGULATION OF UTERINE RNA AND PROTEIN METABOLISM  
Greenman, David L.    Johns Hopkins U    Baltimore, Md  
DHEW Grant AM-9324 \$24,330;    01/65-12/70 \$151,667
- 84      ESTROGEN ACTION IN RAT UTERUS  
Halkerston, Ian D.    Worcester Fdn for Exptl Biol  
   Shrewsbury, Mass  
DHEW Grant HD-3203 \$55,664;    05/68-04/71 \$149,207
- 85      STUDY OF THE EFFECTS OF STEROIDS ON RNA (in the mammalian oviduct)  
Hamilton, Terrell H.    Texas, U of    Austin, Texas  
DHEW Contract(NICHD) NIH 70-2159 \$43,400;
- 86      NEUROHUMORAL CONTROL OF OVIDUCT FUNCTION (fertilization, ovum

- transport and preimplantation development)  
 Harper, Michael J. K. Worcester Fdn for Exptl Biol  
 Shrewsbury, Mass  
 DHEW Grant HD-2597 \$32,983; 01/67-12/73 \$203,685
- 87 PHYSIOLOGY OF THE MAMMALIAN OVIDUCT  
 Howe, George R. Massachusetts, U of Amherst, Mass  
 DHEW Grant HD-4189 \$12,934; 10/68-09/72 \$43,915
- 88 ESTROGEN-RECEPTOR SUBSTANCES OF OVIDUCT TISSUE  
 Jensen, Elwood V. Chicago, U of Chicago, Ill  
 DHEW Contract(NICHD) NIH 69-2108 \$12,886; 06/69-06/71 \$58,051
- 89 HORMONAL CONTROL OF METABOLISM IN VAGINAL TISSUE  
 Katzman, Philip A. St. Louis U Sch of Med St. Louis, Mo  
 NSF Grant GB-8778 \$20,250(est); 08/69-08/71 \$40,500
- 90 TRYPTAMINE RECEPTORS IN THE ISOLATED RAT UTERUS (with special  
 emphasis on CNS effects)  
 Khan, Zahir Udain Nat Hlth Laboratories Islamabad, Pakistan  
 DHEW PL-480(Pogarty); 01/70-01/73 \$24,097
- 91 UTERINE EOSINOPHIL STRUCTURE AND FUNCTION  
 Klebanoff, Seymour J. Washington, U of Seattle, Wash  
 DHEW Grant HD-2266 \$15,976; 05/66-04/74 \$112,512
- 92 NEW METHODS OF FERTILITY REGULATION (studies of histamine and diamine  
 oxidase as a potential contraceptive measure)  
 Kobayashi, Yutaka Worcester Fdn Exptl Biology Shrewsbury, Mass  
 DHEW Contract(NICHD) NIH 69-2093 \$33,740;
- 93 FINE STRUCTURE OF HUMAN ENDOMETRIUM - CORRELATION OF NORMAL CYCLICAL  
 CHANGES AND CHANGES INDUCED BY CHLORMADINONE ACETATE  
 Kosek, J. U.S. Vet Adm Hosp Palo Alto, Calif  
 VA Intramural ZO-27915
- 94 BIOELECTRIC ACTIVITY OF THE OVIDUCT IN VIVO  
 Larks, Saul D. Missouri, U of Columbia, Mo  
 DHEW Contract(NICHD) NIH 70-2148 \$31,372; 05/70-05/71
- 95 MORPHOCHEMICAL ANALYSIS OF MUCINS IN MAMMALIAN OVIDUCT  
 Leppi, T. John New Mexico, U of Albuquerque, New Mex  
 DHEW Contract(NICHD) NIH 70-2311 \$17,763;
- 96 A COMPREHENSIVE STUDY OF OVIDUCT PHYSIOLOGY (capacitation and  
 fertilization)  
 Mastroianni, Luigi Pennsylvania, U of Philadelphia, Pa  
 DHEW Grant HD-1810 \$55,069; 07/65-08/71 \$266,490
- 97 PHYSIOLOGY OF THE OVIDUCT  
 Nelsen, Thomas S. Stanford U Stanford, Calif  
 DHEW Contract(NICHD) NIH 70-2257 \$91,585;
- 98 ULTRASTRUCTURAL STUDIES ON THE OVIDUCT  
 Odor, D. Louise Virginia Commonwealth U Richmond, Va  
 DHEW Contract(NICHD) NIH 70-2142 \$13,195; 05/70-05/71 \$13,195
- 99 BIOCHEMICAL AND PHARMACOLOGIC STUDIES OF THE OVIDUCT  
 Russell, Paul T. Cincinnati, U of Cincinnati, Ohio

- DHEW Contract(NICHD) NIH 69-2096 \$36,540; 06/69-06/71 \$70,040
- 100 OVIDUCT CILIA: STRUCTURE, FUNCTION, AND DEVELOPMENT  
Satir, Peter California, U of Berkeley, Calif  
DHEW Contract(NICHD) NIH 70-2261 \$34,343;
- 101 STUDY OF UTERINE LUTEOLYTIC SUBSTANCES  
Schomberg, David William Duke U Durham, N.C.  
DHEW Contract(NICHD) NIH 70-2160 \$17,070; 05/70-05/71
- 102 METABOLISM AND CATION TRANSPORT IN MYOMETRIUM  
Siegman, Marion J. Thomas Jefferson U Philadelphia, Pa  
DHEW Grant HD-3622 \$15,259; 06/68-05/71 \$53,446
- 103 MECHANISM OF GROWTH IN ENDOMETRIAL TISSUE  
Sweat, Max L. Utah, U of Salt Lake City, Utah  
DHEW Grant HD-0472 \$53,954; 09/56-05/73 \$511,754
- 104 ESTROGEN RELATIONSHIPS AND THE EFFECTS OF IUCD'S  
Van Orden, L. S. Iowa, U of Iowa City, Iowa  
DHEW Contract(NICHD) NIH 70-2318 \$25,356;
- 105 DEVELOPMENT & EVALUATION OF OVULATION DETECTION METHODS (monitoring activity of the oviduct)  
Ware, Ray W. Southwest Res Inst San Antonio, Tex Tex  
DHEW Contract(NICHD) NIH 69-2188 \$50,637; 06/69-06/71 \$103,015

#### MALE FERTILITY

- 106 ROLE OF THE EPIDIDYMIS IN SPERM MATURATION  
Amann, Rupert P. Pennsylvania State U University Park, Pa  
DHEW Contract(NICHD) NIH 69-2137 \$58,660; 06/69-06/71 \$89,366
- 107 PHYSIOLOGY OF THE RABBIT TESTIS AND EPIDIDYMIS  
Amann, Rupert P. Pennsylvania State U University Park, Pa  
DHEW Grant HD-1356 \$47,154; 03/65-02/73 \$205,736
- 108 FACTORS MAINTAINING BIOCHEMICAL POLYMORPHISMS  
Ashton, Geoffrey C. Hawaii, U of Honolulu, Hawaii  
DHEW Grant HD-1831 \$64,652; 05/65-05/74 \$326,220
- 109 COMPARATIVE STUDY OF SPERMATOGENESIS AMONG VARIOUS PRIMATE SPECIES  
Barr, Arnold B. U.S. Public Hlth Serv Hosp Staten Island, N.Y.  
DHEW Intramural(FHPS) P-71-60-69 \$2,000; 07/68-06/71 \$4,500
- 110 COMPARISON OF PRESSURES AND MYOGRAPHY IN INTROMISSION  
Beckett, Sidney D. Auburn U Auburn, Ala  
DHEW Grant HD-4104 \$30,844; 06/70-05/72 \$67,844
- 111 ULTRASTRUCTURAL, E/M STUDIES OF MAMMALIAN SPERMIOGENESIS  
Brinkley, B. R. Texas, U of Houston, Texas  
DHEW Contract(NICHD) NIH 69-2139 \$58,703; 06/69-06/71 \$94,578
- 112 GENITAL VASCULAR INSUFFICIENCY AND IMPOTENCE  
Canning, J. R. U.S. Vet Adm Hosp Hines, Illinois  
VA Intramural ZO-19844

- 113 FINE STRUCTURE OF THE VERTEBRATE TESTIS  
Christensen, A. Kent Stanford U Stanford, Calif  
DHEW Grant HD-1512 \$36,229; 05/65-04/71 \$169,864
- 114 COMPOSITION OF HUMAN AND SWINE EPIDIDYMAL PLASMA & SPERM  
Crabo, Bo Royal Veterinary Coll Stockholm, Sweden  
DHEW Contract(NICHD) NIH 70-2056 \$10,316; 02/70-01/71
- 115 PITUITARY GONADOTROPHINS AND TESTICULAR NUCLEIC ACIDS  
Davidson, Oscar W. Miami, U of Miami, Fla  
DHEW Grant HD-4080 \$27,100;
- 116 TESTICULAR FUNCTION AND EXTEROCEPTIVE STIMULI  
Desjardins, Claude Okla St U of Agr & Appl Sci Stillwater, Okla  
DHEW Grant HD-4578 \$53,839; 05/70-04/73 \$124,657
- 117 STEROID METABOLISM IN MALE SEX ORGANS IN VIVO  
Eik-Nes, Kristen B. Southern California, U of Los Angeles, Calif  
DHEW Grant HD-4195 \$70,742; 11/68-10/74 \$376,220
- 118 EFFECT OF AGING AND STRESS ON TESTICULAR METABOLISM  
Ewing, Larry L. Oklahoma State U Stillwater, Oklahoma  
DHEW Grant HD-0636 \$24,100; 09/63-08/71 \$161,895
- 119 ENDOCRINE PHYSIOLOGY OF THE NORMAL AND DISEASED PROSTATE  
Farnsworth, W. E. U.S. Vet Adm Hosp Buffalo, N.Y.  
VA Intramural ZO-2977
- 120 INVESTIGATION OF SPERMATOGENESIS, RELEASE MATURATION  
Fawcett, Don W. Harvard U Boston, Mass  
DHEW Contract(NICHD) NIH 69-2107 \$59,944; 06/69-06/71 \$126,600
- 121 STRUCTURE AND FUNCTION OF EPIDIDYMIS AND VAS DEFERENS  
Fawcett, Don W. Harvard U Boston, Mass  
DHEW Grant HD-4290 \$15,848; 11/69-10/72 \$56,083
- 122 ACCESSORY GLANDS OF THE MALE REPRODUCTIVE TRACT  
Flickinger, Charles J. Colorado, U of Boulder, Colo  
DHEW Contract(NICHD) NIH 69-2104 \$12,750; 06/69-06/71 \$27,735
- 123 ROLE OF STEROIDS IN MAMMALIAN EPIDIDYMIS  
Frankel, Arthur I. New York, State U of Binghamton, N.Y.  
DHEW Grant HD-4081 \$17,738; 04/69-03/71 \$39,252
- 124 STUDY OF GOLDEN HAMSTER SPERMATOZOA  
Franklin, Luther E. Tulane U Covington, La  
DHEW Contract(NICHD) NIH 69-2101 \$15,705; 06/69-06/71 \$24,822
- 125 DEVELOPMENT OF MALE REPRODUCTIVE FUNCTION  
French, Frank Sikes North Carolina, U of Chapel Hill, N.C.  
DHEW Grant HD-4466 \$34,749; 06/70-05/74 \$112,316
- 126 CHARACTERISTICS, METABOLISM, FERTILITY OF HUMAN SEMEN  
Freund, Matthew Jay New York Medical Coll New York, N.Y.  
DHEW Grant HD-0488 \$20,623; 01/59-12/71 \$167,278
- 127 DIFFERENTIATION DURING MALE GAMETOGENESIS & FERTILITY  
Gledhill, Barton L. Pennsylvania, U of Philadelphia, Pa

- DHEW Grant HD-3577 \$34,443; 11/68-10/71 \$102,379
- 128 BIOCHEMICAL STUDIES ON SPERMATOGENESIS & SPERMATOZOA  
Goldberg, Erwin Northwestern U Evanston, Ill  
DHEW Contract (NICHD) NIH 69-2162 \$45,061; 06/69-06/71 \$85,005
- 129 RESEARCH AND DEVELOPMENT OF NEW CONTRACEPTIVES (macromolecular  
biosynthesis in epididymal, ejaculated and capacitated  
spermatozoa)  
Hele, Priscilla Worcester Fdn for Exptl Biology  
Shrewsbury, Mass  
DHEW Contract (NICHD) NIH 70-2315 \$52,785; 06/70-06/71 \$52,785
- 130 PRIMATE SEMEN AND MALE ACCESSORY GLAND SECRETIONS  
Hoskins, Dale D. Med Res Fdn of Oregon Portland, Oreg  
DHEW Grant HD-3770 \$26,309; 11/68-10/71 \$73,521
- 131 SEPARATION OF SPERMATOZOA OF DIFFERENT SIZES IN LABORATORY ANIMALS  
AND CATTLE  
Kiddy, Charles A. Agricultural Res Ctr Beltsville, Md  
USDA Intramural 03-31-064-310-21 \$13,000; 04/68-04/73 \$38,000
- 132 THE IMPORTANCE OF IMMUNOGENETIC FACTORS IN PROBLEMS OF LOWERED  
FERTILITY IN CATTLE  
Kiddy, Charles A. Agricultural Res Ctr Beltsville, Md  
USDA Intramural 03-31-004-310-21 \$51,000; /64- /70 \$101,000
- 133 THE METABOLISM OF HUMAN SPERMATOZOA  
MacLeod, John Cornell U New York, N.Y.  
DHEW Grant HD-0481 \$13,247; 01/58-12/71 \$190,866
- 134 BIOLOGY OF THE TESTIS: ACTION OF FSH  
Means, Anthony R. Vanderbilt U Nashville, Tenn  
DHEW Grant HD-4416 \$48,612; 06/70-05/73 \$101,531
- 135 SPERM ENZYMES IN FERTILIZATION AND SPERM PHYSIOLOGY  
Meizel, Stanley California, U of Davis, Calif  
DHEW Grant HD-3549 \$18,487; 06/68-05/71 \$70,103
- 136 MACROMOLECULE SYNTHESIS AND SPERM FUNCTION  
Morton, Bruce Hawaii, U of Honolulu, Hawaii  
DHEW Grant HD-4738 \$21,744; 01/70-12/71 \$38,819
- 137 NEUROCHEMICAL CONTROL OF SPERM MOTILITY  
Nelson, Leonard Med Coll of Ohio at Toledo Toledo, Ohio  
DHEW Contract (NICHD) NIH 70-2313 \$45,558; 06/70-06/71 \$45,558
- 138 SUBMICROSCOPIC BASES OF MALE INFERTILITY  
Nelson, Leonard Med Coll of Ohio at Toledo Toledo, Ohio  
DHEW Grant HD-3266 \$23,186; 03/68-02/73 \$175,011
- 139 TESTIS RUPTURE  
Olsson, C. A. U.S. Vet Adm Hosp Boston, Mass  
VA Intramural ZO-29350 07/69-06/70
- 140 AN INVESTIGATION OF DIPHOSPHOPYRIDINE NUCLEOTIDE AND  
TRIPHOSPHOPYRIDINE NUCLEOTIDE DEPENDENT ENZYMES IN \*DISEASE  
(in spermatozoa and testis)  
Opher, Albert W. U.S. Vet Adm Hosp Fort Howard, Md

- VA Intramural ZO-26419
- 141 PROPERTIES OF LACTATE DEHYDROGENASE ISOENZYME  
Ophef, Albert W. U.S. Vet Adm Hosp Fort Howard, Md  
VA Intramural ZO-27665
- 142 STUDY OF HORMONAL CONTROL OF SPERM MATURATION  
Orgebin-Crist, Marie-Claire Vanderbilt U Nashville, Tenn  
DHEW Contract(NICHD) NIH 69-2166 \$37,083; 06/69-06/71 \$64,926
- 143 MALE REPRODUCTIVE PHYSIOLOGY  
Orgebin-Crist, Marie-Claire Vanderbilt U Nashville, Tenn  
DHEW Grant HD-3820 \$21,973; 12/68-11/71 \$61,489
- 144 MAMMALIAN SPERM MOTILITY AND ULTRASTRUCTURE  
Phillips, David M. Washington U St Louis, Mo  
DHEW Contract(NICHD) NIH 69-2106 \$40,543; 06/69-06/71 \$83,242
- 145 HUMAN SEMEN ANTIBODIES CAUSING INFERTILITY  
Quinlivan, W. Leslie G. California, U of Los Angeles, Calif  
DHEW Grant HD-2322 \$18,741; 01/66-03/72 \$109,767
- 146 CONTROL MECHANISMS OF SPERM MOTILITY  
Rikmenspoel, Robert New York, State U of Albany, N.Y.  
DHEW Contract(NICHD) NIH 70-2156 \$30,836; 06/70-06/71 \$30,836
- 147 EPIDIDYMAL CHOLINESTERASES OF THE RAT  
Skrepetos, Chris N. Southern Oregon Coll Ashland, Oreg  
DHEW Grant HD-3403 \$15,359; 06/68-05/71 \$43,162
- 148 EFFECT OF GONADOTROPINS ON TESTIS TISSUE CULTURE  
Steinberger, Anna Albert Einstein Med Ctr Philadelphia, Pa  
DHEW Grant HD-0399 \$54,293; 09/61-08/72 \$449,024
- 149 GONADO-PITUITARY AXIS IN THE RAT  
Steinberger, Emil Albert Einstein Med Ctr Philadelphia, Pa  
DHEW Grant HD-4178 \$52,709; 09/61-08/72 \$411,158
- 150 GERM CELL CHROMOSOMAL STRUCTURE IN SUBJECTS WITH VARICOCELE AND  
INFERTILITY  
Swerzie, S. P. U.S. Public Hlth Serv Hosp Boston, Mass  
DHEW Intramural(FPHS) B-70-9-69 \$1,300; 08/68-08/70 \$5,075
- 151 METABOLISM IN SPERMATOGENESIS & SPERM MATURATION  
Turner, Charles Boston U Boston, Mass  
DHEW Contract(NICHD) NIH 69-2102 \$14,177; 06/69-06/71 \$25,884
- 152 ASPECTS OF MALE REPRODUCTION  
Van Demark, Noland L. Ohio State U Columbus, Ohio  
DHEW Prog Proj HD-3822 \$131,662; 01/70-12/72 \$335,748
- 153 FACTORS CONTROLLING TESTICULAR TISSUE METABOLISM  
Van Demark, Noland L. Ohio State U Columbus, Ohio  
DHEW Grant HD-3535 \$41,594; 02/64-12/69 \$224,958
- 154 BIOCHEMISTRY OF THE MALE GENITAL TRACT  
Williams-Ashman, Howard Guy Chicago, U of Chicago, Ill  
DHEW Grant HD-4592 \$104,255; 06/69-05/75 \$478,620

- 155 STUDY OF GONADOTROPIN ACTION IN THE TESTES  
Williams, William L. Georgia, U of Athens, Ga  
DHEW Contract(NICHD) NIH 70-2262 \$33,500; 06/70-06/71 \$33,500
- 156 ELECTRON MICROSCOPIC STUDIES ON MAMMALIAN SPERM  
Zamboni, Luciano Los Angeles County Dept of Hosp Torrance, Calif  
DHEW Grant HD-3341 \$33,641; 05/68-04/71 \$96,438
- 157 HETEROGENEITY OF DEHYDROGENASES IN HUMAN DEVELOPMENT (sperm)  
Zinkham, William H. Johns Hopkins U Baltimore, Md  
DHEW Grant HD-0994 \$35,439; 09/64-08/70 \$204,515

#### FERTILIZATION

- 158 SPERM MATURATION STUDIES  
Bedford, J. Michael Columbia U New York, N.Y.  
DHEW Contract(NICHD) NIH 70-2143 \$72,770; 05/70-05/71 \$72,770
- 159 PHYSIOLOGY AND ULTRASTRUCTURE OF SPERM CAPACITATION  
Bedford, J. Michael Columbia U New York, N.Y.  
DHEW Grant HD-3623 \$20,401; 06/68-05/71 \$64,507
- 160 STUDY OF FERTILIZATION OF PRIMATE OVA  
Brackett, Benjamin G. Pennsylvania, U of Philadelphia, Pa  
DHEW Contract(NICHD) NIH 70-2163 \$48,740; 05/70-05/71 \$48,740
- 161 PHYSIOLOGY OF THE FEMALE TRACT (including mechanism of sperm and  
egg transport in the female tract)  
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass  
DHEW Grant HD-3003 \$52,958; 01/60-12/72 \$362,916
- 162 PHYSIOLOGY OF MAMMALIAN FERTILIZATION  
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass  
DHEW Grant HD-3472 \$37,980; 01/63-12/74 \$311,007
- 163 IONIZING RADIATION ON MAMMALIAN SPERM AND EGGS  
Chang, Min Chueh Worcester Fdn for Exptl Biol Shrewsbury, Mass  
DHEW Grant GM-14370 \$36,960; 01/67-12/73 \$167,920
- 164 IMMUNOLOGICAL CONTROL OF REPRODUCTION (effects of testicular  
homogenates on fertility)  
Clegg, M. T. Tulane U Covington, La  
DHEW Contract(NICHD) NIH 70-2314 \$23,936; 06/70-06/71 \$23,936
- 165 OOCYTE MATURATION AND FERTILIZATION RESEARCH  
Cross, Patricia C. Pennsylvania, U of Philadelphia, Pa  
DHEW Contract(NICHD) NIH 70-2150 \$39,945; 05/70-05/71 \$39,945
- 166 OVULATION & CAPACITATION IN THE NON-HUMAN PRIMATE  
Dukelow, W. Richard Michigan State U East Lansing, Mich  
DHEW Contract(NICHD) NIH 70-2061 \$24,325; 06/70-06/71 \$24,325
- 167 NATURE OF TRANSFORMATION OF HYALINE LAYER SUBSTANCES IN  
SEA URCHINS EGGS  
Epel, David Scripps Inst Oceanography, UCSD La Jolla, Calif  
NSF Grant GB-16155 \$18,200; 01/70-12/70 \$18,200

- 168 OVIDUCT SECRETIONS AND SPERM STUDIES  
Foley, Charles W. Georgia, U of Athens, Ga  
DHEW Contract(NICHD) NIH 70-2316 \$12,300; 06/70-06/71 \$12,300
- 169 FINE STRUCTURE OF CAPACITATION AND FERTILIZATION  
Franklin, Luther E. Tulane U New Orleans, La  
DHEW Grant HD-4233 \$17,459; 05/69-04/71 \$33,977
- 170 SPERM TRANSPORT & SURVIVAL IN THE FEMALE GENITAL TRACT  
Gregoire, Adolphe T. Michigan, U of Ann Arbor, Mich  
DHEW Contract(NICHD) NIH 70-2167 \$32,723; 05/70-05/71 \$32,723
- 171 THE CAPACITATION OF SPERMATOZOA IN UTERINE FLUID  
Hafs, Harold David Michigan State U East Lansing, Mich  
DHEW Grant HD-3039 \$29,474; 10/67-09/70 \$83,527
- 172 HORMONAL REGULATION OF SPERM IN THE FEMALE TRACT  
Hamner, Charles E. Virginia, U of Charlottesville, Va  
DHEW Grant HD-3516 \$27,126; 05/68-04/71 \$89,558
- 173 INHIBITION OF CAPACITATION - A CONTRACEPTIVE METHOD  
Hamner, Charles E. Virginia, U of Charlottesville, Va  
DHEW Contract(NICHD) NIH 69-2105 \$22,950; 06/69-06/71 \$44,744
- 174 A MOLECULAR APPROACH TO FERTILIZATION  
Hedrick, Jerry L. California, U of Davis, Calif  
DHEW Grant HD-4906 \$58,630; 04/70-03/75 \$231,861
- 175 DEVELOPMENTAL REGULATION OF MACROMOLECULAR METABOLISM  
Humphreys, Tom D. California, U of San Diego, Calif  
DHEW Grant HD-3480 \$40,497; 08/67-05/73 \$165,560
- 176 MEIOSIS AND FERTILIZATION OF HUMAN OVA IN VITRO  
Klinger, Harold P. Yeshiva U New York, N.Y.  
DHEW Contract(NICHD) NIH 69-2129 \$38,918 06/69-06/71 \$76,219
- 177 SPERM STUDIES (effect of antibodies on sperm in the female tract)  
Metz, Charles B. Miami, U of Coral Gables, Fla  
DHEW Contract(NICHD) NIH 70-2253 \$92,300; 06/70-06/71 \$92,300
- 178 STUDIES ON PRE-FERTILIZATION PHENOMENA IN HYDROIDS  
Miller, Richard Lee Temple U Philadelphia, Pa  
DHEW Grant HD-4543 \$30,037; 11/69-10/72 \$72,881
- 179 SYNTHESIS OF RNA DURING OOGENESIS IN SEA URCHINS  
Piatigorsky, Joram P. NICHD Bethesda, Md  
DHEW Intramural HD-DB11 \$27,400;
- 180 STUDIES OF MAMMALIAN REPRODUCTIVE CELL MEMBRANES  
Piette, Lawrence H. Hawaii, U of Honolulu, Hawaii  
DHEW Contract(NICHD) NIH 70-2153 \$56,099; 05/70-05/71 \$56,099
- 181 MEMBRANE CHANGES DURING OOGENESIS AND FERTILIZATION  
Rosenberg, Murray D. Minnesota, U of St Paul, Minn  
DHEW Grant HD-4702 \$48,344; 01/70-12/72 \$125, 952
- 182 STUDY OF ROLE OF CORTICAL GRANULES IN FERTILIZATION  
Schuel, Herbert New York, City U of New York, N.Y.



- DHEW Contract(NICHD) NIH 69-2202 \$44,532; 06/69-06/71 \$103,921
- 183 PROTEASE INHIBITORS IN HUMAN GENITAL SECRETIONS  
Schumacher, Gebhard F. B. Chicago, U of Chicago, Ill  
DHEW Contract(NICHD) NIH 70-2317 \$23,227; 06/70-06/71 \$23,227
- 184 IMMUNOREPRODUCTION - MECHANISMS OF FERTILIZATION  
Shivers, Charles A. Tennessee, U of Knoxville, Tenn  
DHEW Grant HD-4020 \$15,617; 01/69-12/71 \$57,531
- 185 CAPACITATION OF MAMMALIAN SPERMATOZOA  
Soupart, Pierre Vanderbilt U Nashville, Tenn  
DHEW Grant HD-3769 \$47,573; 11/68-10/71 \$130,532
- 186 SPERM CAPACITATION CONTRACEPTION - ANIMAL STUDIES  
Soupart, Pierre Vanderbilt U Nashville, Tenn  
DHEW Contract(NICHD) NIH 70-2162 \$44,278; 05/70-05/71 \$44,278
- 187 REPRODUCTIVE BIOCHEMISTRY (enzyme studies of sperm acrosomes  
and seminal plasma inhibitors)  
Srivastava, P. N. Georgia, U of Athens, Ga  
DHEW Contract(NICHD) NIH 70-2147 \$29,494; 05/70-05/71 \$29,494
- 188 STUDY OF ACROSOMAL ENZYMES  
Stambaugh, Richard L. Pennsylvania, U of Philadelphia, Pa  
DHEW Contract(NICHD) NIH 70-2161 \$28,250; 05/70-05/71 \$28,250
- 189 STUDY OF BIOCHEMICAL REQUIREMENTS FOR FERTILIZATION  
Williams, William L. Georgia, U of Athens, Ga  
DHEW Contract(NICHD) NIH 69-2103 \$45,351; 06/69-06/71 \$79,473
- 190 STUDIES ON IN VITRO FERTILIZATION OF RODENT EGGS  
Yanagimachi, Ryuzo Hawaii, U of Honolulu, Hawaii  
DHEW Grant HD-3402 \$30,732; 02/68-03/71 \$94,129
- 191 MORPHOPHYSIOLOGIC STUDIES ON MAMMALIAN GAMETES  
Zamboni, Luciano Los Angeles County Dept of Hosp Torrance, Calif  
DHEW Contract(NICHD) NIH 69-2220 \$42,416; 06/69-06/71 \$66,199
- ZYGOTE TRANSPORT, PREIMPLANTATION DEVELOPMENT AND IMPLANTATION
- 192 REGULATION OF GENE EXPRESSION IN DEVELOPMENT (blastocyst development)  
Baker, Robert F. Southern California, U of Los Angeles, Calif  
DHEW Grant HD-4015 \$23,886; 02/69-01/72 \$84,636
- 193 POTENTIAL USE OF ANTI-TROPHOBLAST SERUM AS CONTRACEPTIVE  
Behrman, Samuel J. Michigan, U of Ann Arbor, Mich  
DHEW Contract(NICHD) NIH 70-2155 \$38,229; 05/70-05/71 \$38,229
- 194 UTERINE SECRETIONS AND IMPLANTATION  
Biggers, John D. Johns Hopkins U Baltimore, Md  
DHEW Contract(NICHD) NIH 70-2166 \$39,749; 05/70-05/71 \$39,749
- 195 STUDIES ON THE PHYSIOLOGY OF EARLY PREGNANCY (oogenesis, cleavage  
and implantation)  
Biggers, John D. Johns Hopkins U Baltimore, Md

- DHEW Grant HD-3077 \$11,811; 09/67-08/70 \$37,542
- 196 STUDIES ON OOGENESIS, CLEAVAGE AND IMPLANTATION  
Biggers, John D. Johns Hopkins U Baltimore, Md  
DHEW Grant HD-4185 \$36,390; 01/69-12/71 \$118,420
- 197 SULFOMUCOPOLYSACCHARIDES IN THE UTERUS OF PREGNANCY  
Bo, Walter J. Wake Forest U Winston-Salem, N.C.  
DHEW Grant HD-1357 \$11,977; 01/65-12/70 \$69,570
- 198 STUDY IN EXPERIMENTAL METHODS OF INTERRUPTING PREGNANCY  
(microwave radiation)  
Brent, Robert L. Thomas Jefferson U Philadelphia, Pa  
DHEW Contract(NICHD) NIH 70-2306 \$37,660; 06/70-06/71 \$37,660
- 199 ENERGY METABOLISM IN PREIMPLANTED MAMMALIAN EMBRYOS  
Brinster, Ralph L. Pennsylvania, U of Philadelphia, Pa  
DHEW Grant HD-3071 \$54,141; 02/68-01/73 \$251,568
- 200 INHERITED CYTOGENETIC DEFECTS IN SPONTANEOUS ABORTION  
Byrd, Jerome R. Georgia, Med Coll of Augusta, Ga  
DHEW Grant HD-3324 \$31,239; 06/68-05/71 \$87,761
- 201 ASPECTS OF TROPHOBLAST DEVELOPMENT AND IMPLANTATION  
Clark, Wallis H. Jr Houston, U of Houston, Texas  
DHEW Contract(NICHD) NIH 69-2094 \$29,571; 06/69-06/71 \$48,400
- 202 SYNTHESIS OF RNA AND OF PROTEIN IN NON-NUCLEATE FRAGMENTS OF SEA  
URCHINS EGGS (after fertilization)  
Craig, Sydney Pollock NICHD Bethesda, Md  
DHEW Intramural HD-DB9 \$13,700;
- 203 BLASTOCYST EXPANSION & PREOVULATORY FOLLICLE SWELLING  
Cross, Morton Pennsylvania, U of Philadelphia, Pa  
DHEW Contract(NICHD) NIH 69-2141 \$28,697; 06/69-06/71 \$52,625
- 204 ACTIONS OF ESTROGEN & PROGESTERONE ON PREGNANT UTERUS  
Csapo, Arpad Istvan Washington U St Louis, Mo  
DHEW Contract(NICHD) NIH 69-2194 \$48,718; 06/70-06/71 \$48,718
- 205 UTERINE PROTEINS IN MAMMALIAN EMBRYOGENESIS (effect on blastulation)  
Daniel, Joseph C. Jr Colorado, U of Boulder, Colo  
DHEW Grant HD-4165 \$45,935; 06/69-05/72 \$126,347
- 206 STUDIES ON NUTRITION OF THE PREPLACENTAL EMBRYOS OF THE MAMMAL  
Daniel, Joseph C. Jr Colorado, U of Boulder, Colo  
AEC Contract AT(11-1) 1597 \$28,000; 04/66- \$137,158
- 207 OOGENESIS AND THE CONTROL OF EMBRYONIC GENE ACTIVITY  
Davidson, Eric H. Rockefeller U New York, N.Y.  
DHEW Grant HD-2412 \$21,713; 06/66-11/72 \$84,066
- 208 PLACENTAL-OVARIAN INTERRELATIONSHIPS  
Davies, Jack Vanderbilt U Nashville, Tennessee  
DHEW Grant HD-0971 \$17,665; 09/63-05/71 \$125,369
- 209 STUDIES ON THE MECHANISM OF DECIDUALIZATION  
De Feo, Vincent J. Hawaii, U of Honolulu, Hawaii  
DHEW Grant HD-2399 \$37,071; 09/66-08/73 \$207,249

- 210 MAMMALIAN SPERM NUCLEOPROTEINS AFTER FERTILIZATION  
Ecklund, Peter S. Child Res Ctr of Michigan Detroit, Mich  
DHEW Grant HD-4767 \$2,818; 01/70-12/71 \$5,118
- 211 MECHANISMS OF IMPLANTATION IN MAMMALS  
Enders, Allen C. Washington U Sch of Med St Louis, Mo  
NSF Grant GB-20985 \$17,100(est); 07/70-06/72 \$34,200
- 212 PROTEIN AND RNA SYNTHESIS IN MAMMALIAN EMBRYOGENESIS  
Epstein, Charles J. California, U of San Francisco, Calif  
DHEW Grant HD-3132 \$22,016; 06/68-05/71 \$73,922
- 213 TRANSFER OF MATERNAL MACROMOLECULES TO MAMMALIAN EGGS  
(mouse and rabbit)  
Glass, Laurel E. California, U of San Francisco, Calif  
DHEW Contract(NICHD) NIH 70-2309 \$29,000; 06/70-06/71 \$29,000
- 214 MATERNAL-EMBRYO INTERACTIONS DURING MAMMALIAN DEVELOPMENT  
Glass, Laurel E. California, U of San Francisco Med Ctr  
San Francisco, California  
AEC Contract AT(11-1)-34 \$35,000; 10/59- \$318,273
- 215 EFFECT OF PROGESTERONE AND ESTRADIOL ON THE EARLY EMBRYO  
Hahn, William Colorado, U of Denver, Colo  
DHEW Contract(NICHD) NIH 70-2259 \$26,197; 06/70-06/71 \$26,197
- 216 CONTROL OF PROTEIN SYNTHESIS DURING EMBRYOGENESIS (study of  
fertilization and early cleavage in sea urchin eggs)  
Infante, Anthony A. Wesleyan U Middletown, Conn  
DHEW Grant HD-3753 \$20,579; 11/68-10/71 \$69,412
- 217 STUDIES ON THE ANTIGENIC STATUS OF THE OVUM  
Joshi, Susan Heyner Phila Coll of Pharm & Sci Phila, Pa  
DHEW Contract(NICHD) NIH 70-2151 \$24,514; 05/70-05/71 \$24,514
- 218 MICRURGICAL STUDIES ON THE DEVELOPMENT OF MOUSE EGGS  
Lin, Teh P. California, U of San Francisco, Calif  
DHEW Grant HD-2186 \$21,931; 05/66-04/71 \$96,295
- 219 REGULATION OF GENE ACTION IN EARLY EMBRYOGENESIS  
Malacinski, George M. Indiana U Bloomington, Ind  
DHEW Grant HD-4671 \$35,788; 01/70-12/72 \$71,904
- 220 GENETIC EXPRESSION IN THE PREIMPLANTATION MAMMAL  
Manes, Cole Colorado, U of Denver, Colorado  
DHEW Grant HD-4274 \$44,167; 01/70-12/72 \$119,920
- 221 ROLE OF THE PINEAL GLAND IN DELAYED IMPLANTATION  
Mead, Rodney Ldair Idaho, U of Moscow, Idaho  
DHEW Grant HD-4021 \$13,185; 02/69-01/71 \$28,671
- 222 SEQUENTIAL ASPECTS OF OCCURRENCE OF SPONTANEOUS ABORTION IN  
FAMILY HISTORIES  
Naylor, A. F. NINDS Bethesda, Md  
DHEW Intramural NDS(CF) 65-PR/EG 1276
- 223 REGULATION OF RNA & PROTEIN SYNTHESIS IN EMBRYOGENESIS (early cleavage)  
Nemer, Martin J. Inst for Cancer Res Philadelphia, Pa

- DHEW Grant HD-4367 \$40,780; 09/61-08/74 \$209,567
- 224 COMPARATIVE UTERINE VASCULATURE  
Orsini, Margaret Ward Wisconsin, U of Madison, Wis  
DHEW Grant HD-0267 \$40,819; 02/59-01/71 \$293,467
- 225 ADRENERGIC PHARMACOLOGY OF OVUM TRANSPORT  
Pauerstein, Carl J. Texas, U of San Antonio, Tex  
DHEW Grant HD-4182 \$11,704; 06/69-05/72 \$36,373
- 226 CYTOPLASMIC REGULATION IN EARLY CELL DIFFERENTIATION (embryogenesis)  
Smith, L. Dennis Purdue U Lafayette, Ind  
DHEW Grant HD-4229 \$29,698; 05/69-04/72 \$89,424
- 227 REPRODUCTIVE SENESCENCE IN THE GOLDEN HAMSTER  
Soderwall, A. L. Oregon, U of Eugene, Oreg  
DHEW Grant HD-4234 \$35,601; 11/69-10/72 \$96,172
- 228 IDENTIFICATION OF LATENT FACTORS IN EMBRYONIC DEATH  
Ulberg, Lester C. North Carolina State U Raleigh, N.C.  
DHEW Grant HD-2923 \$27,812; 07/67-06/71 \$77,478
- 229 PHOTOPERIOD, IMPLANTATION AND PARTURITION  
Yochim, Jerome M. Kansas, U of Lawrence, Kans  
DHEW Grant HD-4016 \$21,747; 06/69-05/72 \$59,040

#### REPRODUCTIVE ENDOCRINOLOGY

Multiple or unspecified

- 230 CORPUS LUTEUM REGULATORY MECHANISMS  
Armstrong, David Thomas Western Ontario, U of London, Canada  
DHEW Contract(NICHD) NIH 69-2165 \$45,208; 06/69-06/71 \$81,716
- 231 METABOLIC AND ENDOCRINE EFFECTS OF PEPTIDE HORMONES  
Beck, Paul Colorado, U of Denver, Colo  
DHEW Grant HD-2455 \$38,807; 12/66-11/72 \$214,247
- 232 ENDOCRINE INFLUENCING CENTERS IN THE HYPOTHALAMUS  
Bogdanove, Emanuel M. Grad Sch of Ind U Fdn Bloomington, Ind  
DHEW Grant NS-3371 \$49,408; 09/59-08/71 \$410,151
- 233 POLYSTYRENE-BOUND ANTIBODIES FOR RADIOIMMUNE ASSAYS (for protein and steroid hormones)  
Falb, Richard D. Battelle Mem Inst Columbus, Ohio  
DHEW Contract(NICHD) NIB 70-2308 \$21,165; 06/70-12/70 \$21,165
- 234 FERTILITY CONTROL AND CONTRACEPTION (steroid secretion and production)  
Gandy, Hortense M. Cornell U New York, N.Y.  
DHEW Contract(NICHD) NIH 70-2140 \$52,305; 05/70-05/71 \$52,305
- 235 PITUITARY AND HYPOTHALAMIC PROTEINS AND PEPTIDES  
Geschwind, Irving I. California, U of Davis, Calif  
DHEW Grant HD-0394 \$63,789; 05/61-08/73 \$397,441

- 236 CNS PITUITARY OVARY INTERRELATIONSHIPS  
Greep, Roy O. Harvard U Boston, Mass  
DHEW Grant HD-3736 \$105,454; 09/53-08/72 \$1,101,024
- 237 ENDOCRINE CONTROL OF ANIMAL REPRODUCTION  
Hawk, Harold W. Agricultural Res Ctr Beltsville, Md  
USDA Intramural 03-31-060-231-021 \$75,000;
- 238 NERVOUS CONTROL OF PITUITARY  
Hilliard, Jessamine O. U.S. Vet Adm Hosp Long Beach, Calif  
VA Intramural ZO-12235
- 239 FACTORS CONTROLLING THE TIMING OF LH RELEASE  
Hoffmann, Joan C. Rochester, U of Rochester, N.Y.  
DHEW Grant HD-2060 \$23,779; 05/66-01/72 \$88,864
- 240 FOLLICLE STIMULATING HORMONE CONTROL IN THE MALE  
Johnson, Donald C. Kansas, U of Kansas City, Kansas  
DHEW Grant HD-3097 \$16,921; 03/68-02/71 \$49,878
- 241 STUDIES ON REPRODUCTIVE PHYSIOLOGY IN THE MACAQUE  
Knobil, Ernst Pittsburgh, U of Pittsburgh, Pa  
DHEW Grant HD-3968 \$98,759; 06/61-12/73 \$681,069
- 242 USE OF RADIOIMMUNOASSAY TO DETERMINE THE EFFECTS OF TESTOSTERONE  
ADMINISTRATION ON SERUM LEVELS OF FOLLICLE STIMULATING  
HORMONE IN MALES  
Leonard, John M. U.S. Public Hlth Serv Hosp Seattle, Wash  
DHEW Intramural(FHPS) 0-70-10 \$1,000; 07/69-12/69
- 243 THE NATURE OF HORMONE-PRODUCING AND HORMONE-SENSITIVE TUMORS IN  
MAN, INCLUDING TUMORS OF BREAST, PROSTATE, UTERUS, PITUITARY  
ADRENAL, OVARY AND TESTIS; ABNORMALITIES OF SOMATIC  
DEVELOPMENT AND GROWTH  
Lipsett, Mortimer P. Nat Cancer Inst Bethesda, Md  
DHEW Intramural NCI-803 \$721,000;
- 244 STUDIES OF TESTOSTERONE STERILIZED RAT  
Lloyd, Charles W. Worcester Fdn for Exptl Biol  
Shrewsbury, Mass  
DHEW Grant AM-8184 \$62,663; 01/64-12/71 \$407,048
- 245 CONTROL OF OVULATION AND CORPUS LUTEUM FUNCTION  
Mahesh, Virendra B. Georgia, Medical Coll of Augusta, Ga  
DHEW Contract(NICHD) NIH 70-2149 \$43,760; 05/70-05/71
- 246 SURGICAL ENDOCRINOLOGY (pharmacology of gonadotropins)  
Marshall, John R. Nat Cancer Inst Bethesda, Md  
DHEW Intramural NCI-3813
- 247 PITUITARY OVARIAN UTERINE RELATIONSHIPS  
Melaupy, Robert M. Iowa State U of Science & Tech Ames, Iowa  
DHEW Grant HD-1168 \$60,690; 01/60-12/70 \$471,068
- 248 ENDOCRINE REGULATION OF REPRODUCTION (including LH, FSH,  
prolactin and corresponding releasing factors - radioimmune  
assays)  
Midgley, A. Rees Jr Michigan, U of Ann Arbor, Mich  
DHEW Grant HD-4105 \$92,272; 02/69-01/74 \$424,384

- 249 ENDOCRINOLOGY OF REPRODUCTION OF DOMESTIC ANIMALS  
Nalbandov, Andrew V. Illinois, U of Urbana, Ill  
DHEW Grant HD-3043 \$108,058; 01/63-12/72 \$396,948
- 250 ASPARTATE CARBAMYLTRANSFERASE OF REPRODUCTIVE TISSUES  
Nishikawara, Margaret T. Ohio State U Columbus, Ohio  
DHEW Grant HD-5040 \$18,197; 06/70-05/72 \$30,797
- 251 ENDOCRINE REGULATION OF THE CORPUS LUTEUM  
Niswender, Gordon Dean Michigan, U of Ann Arbor, Mich  
DHEW Contract(NICHD) NIH 69-2134 \$37,220; 06/70-06/71 \$37,220
- 252 HORMONAL CONTROL OF ESTROUS ACTIVITY RHYTHM  
Peretz, Ephraim oreg Reg Primate Res Ctr Beaverton, Oregon  
VA Intramural ZO-28619
- 253 THE ROLE OF LIGHT IN CNS-PITUITARY-GONADAL CONTROL  
Piacsek, Bela E. Marquette U Milwaukee, Wis  
DHEW Grant HD-4375 \$50,684; 11/69-10/72 \$99,986
- 254 MECHANISMS OF STEROID HORMONE ACTION & INTERACTION  
Roberts, Clara S. California, U of Los Angeles, Calif  
DHEW Grant CA-01488 \$1,241; 09/53-08/69 \$401,975
- 255 MECHANISMS OF HORMONE ACTION  
Roberts, Clara S. California, U of Los Angeles, Calif  
DHEW Grant HD-4354 \$51,331; 07/51-08/72 \$524,610
- 256 STUDIES ON THE OVARIAN-HYPOTHALAMIC-HYPOPHYSEAL AXIS  
Sawyer, Charles H. California, U of Los Angeles, Calif  
DHEW Grant HD-1182 \$55,317; 09/62-10/73 \$458,569
- 257 STUDY OF THE RAT ESTROUS CYCLE  
Schwartz, Neena Betty Illinois, U of Chicago, Ill  
DHEW Contract(NICHD) NIH 70-2307 \$41,500; 06/70-06/71 \$41,500
- 258 BIOCHEMICAL STUDIES ON STEROIDS AND PROSTAGLANDINS  
Sih, Charles J. Wisconsin, U of Sch of Pharmacy Madison, Wis  
DHEW Grant AM-9688 \$27,013; 06/65-05/75 \$406,677
- 259 HYPOTHALAMO-HYPOPHYSIAL CONTROL OF THE GONAD  
Spies, Harold Glen Tulane U New Orleans, La  
DHEW Grant HD-3732 \$17,153; 05/69-04/73 \$67,285
- 260 ENDOCRINE FACTORS IN REPRODUCTION  
Tullner, William W. NICHD Bethesda, Md  
DHEW Intramural HD-RP-2 07/69-06/70 \$148,400
- 261 STUDIES IN REPRODUCTIVE BIOCHEMISTRY AND MEDICINE  
Vande Wiele, Raymond L. Columbia U New York, N.Y.  
DHEW Prog Proj HD-5077 \$232,355; 05/70-04/75 \$1,756,910

#### Neuroendocrinology

- 262 CNS REGULATION OF REPRODUCTION IN FEMALE GUINEA PIGS

- Barraclough, Charles A. Maryland, U of Baltimore, Md  
DHEW Grant HD-1514 \$3,254; 04/65-03/70 \$95,026
- 263 REGULATION OF REPRODUCTION IN RODENT POPULATIONS  
Bronson, Franklin H. Texas, U of Austin, Texas  
DHEW Grant HD-4149 \$32,858; 09/68-08/74 \$196,562
- 264 INFLUENCE OF MALE PHEROMONES ON BEHAVIOR  
Clemens, Lynwood G. Michigan State U East Lansing, Mich  
DHEW Grant MH-17808 \$7,494;
- 265 NEURAL MECHANISMS AND CYCLIC PITUITARY FUNCTIONS  
Critchlow, B. Vaughn Baylor U Coll of Med Houston, Texas  
DHEW Grant AM-3385 \$37,501; 09/59-08/72 \$360,902
- 266 OLFACTORY INFLUENCES: AN ELECTROPHYSIOLOGICAL STUDY  
Curry, John J. Boston U Boston, Mass  
NSF Grant GB-17216 \$17,500 (est); 01/70-01/72 \$35,000
- 267 ROLE OF THE BRAIN IN MALE AND FEMALE REPRODUCTION  
Davidson, Julian M. Stanford U Stanford, Calif  
DHEW Grant HD-0778 \$64,000; 05/64-10/71 \$349,378
- 268 CHEMICAL ULTRASTRUCTURE OF NORMAL AND ABERRANT NERVOUS SYSTEM  
Doolin, Paul F. U.S. Vet Adm Hosp Hines, Ill  
VA Intramural ZO-30432
- 269 CHEMICAL COMMUNICATION IN PRIMATES (pheromones)  
Epple, Gisela University City Science Ctr Philadelphia, Pa  
NSF Grant GB-12650 \$18,150; 08/69-08/71 \$36,300
- 270 NEUROHUMORAL CONTROL OF THE ADENOHYPOPHYSIS  
Evans, James S. Tennessee, U of Memphis, Tennessee  
DHEW Grant HD-2457 \$4,883; 01/67-05/70 \$65,961
- 271 NEURAL MECHANISMS CONTROLLING THE PITUITARY GLAND  
Everett, John W. Duke U Durham, N.C.  
NSF Grant GB-21025 \$26,500; 09/70-09/72 \$53,000
- 272 HYPOTHALAMIC NEUROHUMORS CONTROLLING PITUITARY FUNCTION  
Guillemin, Roger Baylor U Coll of Med Houston, Texas  
DHEW Grant AM-14894 \$105,879; 01/64-05/70 \$1,055,632
- 273 HYPOTHALAMIC NEUROHUMORS AND PITUITARY  
Guillemin, Roger Salk Inst for Biological Sciences San Diego, Cal  
DHEW Grant AM-14894 \$125,759; 06/70-12/70
- 274 BASE LINE STUDY OF PRIMATE NEUROPHYSIOLOGY  
Hagino, Nobuyoshi Southwest Fdn for Res & Educ San Antonio, Tex  
NSF Grant GB-8788 \$5,000;
- 275 STUDY OF NEURAL REGULATION OF OVARIAN FUNCTION  
Hagino, Nobuyoshi Southwest Fdn for Res & Educ San Antonio, Tex  
DHEW Contract (NICHD) NIH 69-2133 \$31,146; 06/70-06/71 \$31,146
- 276 CENTRAL NERVOUS REGULATION OF REPRODUCTION  
Haller, Edwin Maryland, U of Baltimore, Md  
DHEW Grant HD-2138 \$96,329; 09/62-08/74 \$658,771

- 277 PINEAL-HYPOTHALAMIC INTERRELATIONSHIPS  
Hoffman, Roger A. Colgate U Hamilton, N.Y.  
DHEW Grant MH-18203 \$4,730; 02/70-01/71
- 278 TOPOGRAPHY OF HYPOTHALAMIC RELEASING FACTORS  
Luciano, Martini Milano, U of Milano, Italy  
DHEW Grant AM-11783 \$12,240; 06/68-05/71 \$39,840
- 279 DETECTION OF LUTEINIZING HORMONE RELEASING FACTOR IN HUMAN  
PERIPHERAL AND PORTAL-HYPOPHYSEAL BLOOD  
Malacara, Juan U.S. Vet Adm Hosp Newington, Conn  
VA Intramural ZO-30339
- 280 NEUROHUMORAL CONTROL OF THE ANTERIOR PITUITARY  
McCann, S. M. Texas, U of Southwestern Med Sch Dallas, Tex  
DHEW Grant AM-10073 \$74,201; 09/56-08/71 \$623,617
- 281 CONTROL OF SECRETION OF HYPOTHALAMIC HYPOPHYSIOTROPIC HORMONES  
Meites, Joseph Michigan State U East Lansing, Mich  
DHEW Grant AM-4784 \$30,331; 01/61-12/73 \$401,661
- 282 ELECTRON MICROSCOPY OF STALK AND NEURAL LOBE OF PITUITARY  
Monroe, Barbara Granger Southern California, U of  
Los Angeles, Calif  
DHEW Grant NS-2321 \$19,769; 12/60-12/70 \$176,685
- 283 THE PHYSIOLOGIC CONTROL OF PROLACTIN SECRETION  
Neill, Jimmy Dyke Emory U Atlanta, Ga  
DHEW Grant HD-4312 \$25,027; 06/69-05/72 \$73,579
- 284 HYPOTHALAMIC INFLUENCE OF GONADOTROPHIN HORMONE RELEASE  
Nikitovitch-Winer, Miroslava B. Kentucky, U of Med Ctr  
Fund Adv Educ & Res Lexington, Ky  
DHEW Grant AM-5086 \$21,920; 06/61-12/70 \$180,819
- 285 INFLUENCE OF BIOGENIC AMINES OF REPRODUCTIVE FUNCTION  
(neuroendocrinology - role of 5HTP and 5HT in regulation of  
reproductive function)  
O'Steen, W. Keith Emory U Atlanta, Ga  
DHEW Grant HD-4102 \$23,330; 04/69-03/72 \$61,783
- 286 HYPOTHALAMIC CONTROL OF ACTH AND LH SECRETION  
Porter, John C. Texas, U of Southwestern Med Sch Dallas, Tex  
DHEW Grant AM-1237 \$47,519; 09/56-08/72 \$567,368
- 287 NEURAL BASIS FOR EFFECTS OF ENVIRONMENT ON FERTILITY  
Printz, Richard H. Cincinnati, U of Cincinnati, Ohio  
DHEW Grant HD-4969 \$20,222; 06/70-05/73 \$51,081
- 288 MECHANISMS OF NEURAL CONTROL OF METABOLIC FUNCTIONS  
Reichlin, Seymour Connecticut, U of Sch of Med Farmington, Conn  
DHEW Grant AM-13695 \$61,498; 06/69-03/74 \$330,104
- 289 PINEAL-ENDOCRINE RELATIONSHIPS IN RODENTS  
Reiter, Russel J. Rochester, U of Rochester, N.Y.  
DHEW Grant HD-2937 \$44,174; 06/67-05/73 \$166,156
- 290 NEUROCHEMISTRY OF THE DIENCEPHALON  
Schally, Andrew V. Tulane U Sch of Med New Orleans, La



- DHEW Grant AM-7467 \$81,927; 09/63-11/71 \$439,620
- 291 FINE STRUCTURAL CORRELATES OF PINEAL GLAND FUNCTION  
Sheridan, Michael N. Rochester, U of Rochester, N.Y.  
DHEW Grant AM-12948 \$8,586; 05/69-04/72 \$32,946
- 292 HORMONE FEED-BACK CONTROL IN HYPOTHALAMUS  
Stumpf, Walter E. North Carolina, U of Chapel Hill, N.C.  
DHEW Grant AM-14929 \$33,851; 05/68-05/71 \$100,604
- 293 NEURAL CONTROL OF GONADAL FUNCTION  
Taleisnik, Samuel Inst Invest Medica Mercedes Y Martin Ferreyra  
Cordoba, Argentina  
DHEW Grant NS-4732 \$8,500; 01/64-05/70 \$262,250
- 294 EFFECTS OF OLFACTORY LESIONS ON REPRODUCTION  
(including pheromones)  
Wenzel, Bernice M. Zoological Soc of San Diego San Diego, Calif  
DHEW Grant MH-18254 \$5,814; 01/70-01/71
- 295 MAMMALIAN EGGS AND PHEROMONES  
Whitten, Wesley K. Jackson Lab Bar Harbor, Maine  
DHEW Grant HD-4083 \$64,086; 01/69-12/73 \$277,212

#### Pituitary and Placental hormones

- 296 PROTEIN HORMONES IN THE BODY FLUIDS OF MAN  
Albert, A. Mayo Fdn Rochester, Minn  
DHEW Grant AM-1738 \$78,453; 09/57-08/72 \$1,096,934
- 297 CHEMICAL AND BIOLOGICAL STUDIES ON CHORIONIC GONADOTROPIN  
Bahl, O. P. Res Fdn of State Univ of New York Albany, N.Y.  
DHEW Grant AM-10273 \$45,777; 09/66-08/74 \$247,523
- 298 STUDIES OF PITUITARY HORMONES IN HYPOPITUITARISM (release and  
metabolism of pituitary gonadotropins)  
Blizzard, Robert M. Johns Hopkins U Baltimore, Md  
DHEW Grant HD-1852 \$39,427; 06/65-05/73 \$230,266
- 299 STRUCTURE ACTIVITY STUDIES ON PITUITARY GONADOTROPINS  
Cahill, Charles L. Oklahoma City U Oklahoma City, Okla  
DHEW Grant AM-6401 \$18,769; 09/62-03/72 \$209,425
- 300 HUMAN CHORIONIC GONADOTROPIN STUDIES  
Canfield, Robert E. Columbia U New York, N.Y.  
DHEW Contract (NICHD) NIH 70-2251 \$47,300; 06/70-06/71 \$47,300
- 301 NEUROHYPOPHYSEAL FUNCTION IN MAN  
Dingman, Joseph Francis Peter Bent Brigham Hosp Boston, Mass  
DHEW Grant HD-3006 \$18,631; 01/67-08/70 \$166,982
- 302 IMMUNOLOGICAL PURIFICATION OF GONADOTROPINS  
Ely, Charles A. Columbia U New York, N.Y.  
DHEW Grant HD-4471 \$40,645; 01/70-12/72 \$112,595
- 303 STUDIES ON SECRETION IN ANTERIOR PITUITARY CELLS

- Farquhar, Marilyn G. California, U of San Francisco Med Ctr  
San Francisco, Calif  
DHEW Grant AM-9090 \$38,009; 01/65-12/72 \$286,384
- 304 HUMA) PITUITARY PROLACTIN  
Freeman, Ruth G. Yesliva U New York, N.Y.  
DHEW Grant HD-3601 \$20,250; 12/68-11/70 \$38,330
- 305 SECRETION AND METABOLISM OF PROLACTIN  
Greenwood, Frederick C. Hawaii, U of Honolulu, Hawaii  
DHEW Grant AM-13217 \$38,729; 01/69-12/71 \$125,357
- 306 IMMUNOASSAY OF LH IN BLOOD  
Ransel, William Cornell U Ithaca, N.Y.  
DHEW Grant HD-2765 ; 02/67-01/70 \$100,140
- 307 PRIMARY STRUCTURE OF PITUITARY GONADOTROPINS  
Kathan, Ralph H. Illinois, U of Chicago, Ill  
DHEW Grant HD-3872 \$13,500; 02/69-01/72 \$41,229
- 308 PITUITARY LACTOGENIC AND GONADOTROPIC HORMONE  
Li, C. H. California, U of San Francisco Med Ctr  
San Francisco, Calif  
DHEW Grant AM-6097 \$70,499; 09/62-08/74 \$674,182
- 309 MECHANISM OF ACTION OF LUTEINIZING HORMONE  
Marsh, Jon. M. Miami, U of Miami, Fla  
DHEW Grant HD-3142 \$24,108; 09/67-08/70 \$82,567
- 310 IMMUNOBIOLOGY OF PITUITARY HORMONES; REGULATION OF FSH AND LH  
Parlow, Albert F. Attending Staff Assoc, Harbor Gen Hosp  
Torrance, Calif  
DHEW Grant AM-11214 \$41,660; 02/67-01/72 \$202,641
- 311 ULTRASTRUCTURE OF PITUITARY HORMONE SECRETION  
Rennels, Edward G. Texas, U of Med Sch San Antonio, Tex  
DHEW Grant AM-12583 \$33,316; 01/69-12/71 \$76,849
- 312 CHARACTERIZATION OF HUMAN PITUITARY GONADOTROPINS  
Rosemberg, Eugenia Med Res Inst of Worcester, Inc. Worcester, Mass  
DHEW Grant AM-7564 \$80,604; 09/59-08/72 783,283
- 313 STUDY OF HUMAN PITUITARY GONADOTROPINS  
Ryan, Robert J. Mayo Fdn Rochester, Minn  
DHEW Grant HD-3726 \$73,524; 01/68-12/70 \$212,449
- 314 NEW METHOD FOR FERTILITY REGULATION (hypothalamo-hypophyseal  
factors in reproduction)  
Saffran, Murray Med Coll of Ohio at Toledo Toledo, Ohio  
DHEW Contract(NICHD) NIH 69-2193 \$70,555; 06/70-06/71 \$70,555
- 315 CONTROL OF ANTERIOR PITUITARY HORMONE BIOSYNTHESIS  
Samli, Marcqueta H. Virginia Polytechnic Inst Blacksburg, Va  
DHEW Grant AM-13776 \$22,056; 11/69-10/72 \$62,293
- 316 ACTION OF GONADOTROPINS IN GONADAL TISSUES  
Savard, Kenneth Miami, U of Miami, Fla  
DHEW Grant HD-3248 \$100,389; 01/58-12/72 \$988,625

- 317 PITUITARY GONADOTROPHIC & GROWTH HORMONE  
Saxena, Brij B. Cornell U Med Coll New York, N.Y.  
DHEW Grant AM-11187 \$5,765; 01/67-04/70 \$149,119
- 318 HUMAN CHORIONIC GONADOTROPHIN (purification and chemical  
characterization)  
Schlaaff, Sheldon Thomas Jefferson U Philadelphia, Pa  
DHEW Grant HD-4714 \$36,034; 01/70-12/72 \$75,739
- 319 DEVELOPMENT OF RADIOIMMUNE ASSAY FOR MONKEY GONADOTROPINS  
Shipley, Elva G. Endocrine Labs of Madison Inc Madison, Wis  
DHEW Contract (NICHD) NIH 70-2250 \$78,553; 06/70-06/71 \$78,553
- 320 IN VITRO BIOSYNTHESIS OF PITUITARY HORMONES  
Tamaoki, Bun-ichi Nat Inst of Radiological Sci Chiba-shi, Japan  
DHEW Grant AM-7715 \$7,900; 09/64-08/70 \$63,450
- 321 THE CHEMISTRY OF LUTEINIZING HORMONE  
Ward, Darrell N. Texas, U of M.D. Anderson Hosp & Tumor Inst  
Houston, Texas  
DHEW Grant AM-9801 \$57,171; 09/65-08/70 \$313,153
- 322 PRODUCTION OF PITUITARY HORMONES FOR USE IN RESEARCH  
Wilhelmi, Alfred E. Emory U Atlanta, Ga  
DHEW Grant AM-3598 \$149,769; 09/59-08/72 \$1,556,219

Steroid hormones

- 323 FATE OF STEROID HORMONES APPLIED TO TARGET ORGANS  
Baggett, Billy Med U of South Carolina Charleston, S.C.  
DHEW Grant AM-14316 \$30,560; 09/57-04/71 \$368,880
- 324 ESTROGEN CONTROL OF FEMALE REPRODUCTIVE TISSUES DURING GROWTH,  
ESTROUS CYCLE, AND IN IMPLANTATION; PLACENTAL DEVELOPMENT  
AND GESTATION  
Bitman, Joel Agricultural Res Ctr Beltsville, Md  
USDA Intramural \$67,000; 12/68-12/73 \$165,000
- 325 AGGRESSIVENESS AND ANDROGEN PRODUCTION IN XY MALES  
Boon, Donald A. Childrens Hosp of Buffalo Buffalo, N.Y.  
DHEW Grant HD-5023 \$18,956; 01/70-12/72 \$50,738
- 326 THE PHYSIOLOGICAL ROLE OF ESTROGEN SULFATES  
Brooks, Sam C. Detroit Inst of Cancer Res Detroit, Mich  
DHEW Grant CA-4519 \$19,631; 04/59-09/71 \$250,326
- 327 DEUTERIUM LABELED STEROIDS FOR STUDY IN HUMANS  
Charles, David Boston U Boston, Mass  
DHEW Grant HD-3494 \$39,133; 03/68-02/71 \$127,064
- 328 ESTROGEN RECEPTORS AND REPRODUCTIVE FUNCTION  
Clark, James Henry Purdue U Lafayette, Ind  
DHEW Grant HD-4985 \$43,067; 05/70-04/73 \$88,571
- 329 STUDY OF PROGESTERONE ACTION (neural regulation of sexual  
receptivity and ovulation)

- Clemens, Lynwood G. Michigan State U East Lansing, Mich  
DHEW Contract(NICHD) NIH 70-2260 \$20,300; 06/70-06/71 \$20,300
- 330 DIHYDROTESTOSTERONE FORMATION AND ANDROGEN TRANSPORT (in the testis)  
Eik-Nes, Kristen B. Southern California, U of Los Angeles, Calif  
DHEW Contract(NICHD) NIH 69-2097 \$45,250; 06/69-06/71 \$81,250
- 331 ESTROGEN BINDING IN RECEPTIVE ORGANS (rat uterus, vagina,  
anterior pituitary and hypothalamus)  
Eisenfeld, Arnold J. Yale U New Haven, Conn  
DHEW Contract(NICHD) NIH 70-2258 \$39,141; 06/70-06/71 \$39,141
- 332 PATTERNS OF STEROID METABOLISM IN CANCER  
Engel, Lewis L. Harvard Med Sch Boston, Mass  
DHEW Grant CA-1393 \$159,737; 03/53-02/74 \$1,574,476
- 333 HORMONAL REGULATION OF BEHAVIOR  
Feder, Harvey Herman Rutgers, The State U Newark, N.J.  
DHEW Grant HD-4467 \$64,768; 10/69-09/73 \$151,634
- 334 METABOLISM OF OVARIAN HORMONES IN THE RHESUS MONKEY  
Flickinger, George L. Pennsylvania, U of Philadelphia, Pa  
DHEW Contract(NICHD) NIH 70-2312 \$32,867; 06/70-06/71 \$32,867
- 335 ANDROGEN METABOLISM (including study of ovarian and pituitary  
function and radioimmune assays of various hormones)  
Gandy, Hortense M. Cornell U Coll of Med New York, N.Y.  
DHEW Grant AM-7328 \$1,983; 09/63-02/70 \$205,105
- 336 MECHANISM OF ACTION OF ESTROGENS (uterine growth)  
Gorski, Jack Illinois, U of Urbana, Ill  
DHEW Grant HD-4828 \$107,483; 06/62-05/75 \$794,245
- 337 DYNAMICS OF METABOLISM OF STEROIDS AND NUCLEOSIDES (including  
permeability of human endometrium to estrogen, androgen and  
progesterone)  
Gurpide, Erlio Minnesota, U of Minneapolis, Minn  
DHEW Grant HD-5363 \$90,620; 06/70-05/73 \$240,983
- 338 BIOSYNTHESIS AND ACTION OF FEMALE HORMONES  
Hagerman, Dwain D. Colorado, U of Denver, Colo  
DHEW Grant HD-5085 \$30,212; 12/69-11/72 \$86,982
- 339 STEROID RECEPTORS IN TARGET TISSUES  
Heinrichs, William L. Washington, U of Seattle, Wash  
DHEW Grant HD-4783 \$18,687; 06/70-05/73 \$44,533
- 340 STEROIDS IN REPRODUCTIVE PHYSIOLOGY (induction of ovulation in  
infertile patients)  
Herrmann, Walter L. Washington, U of Seattle, Wash  
DHEW Grant HD-3286 \$60,021; 07/61-12/70 \$381,399
- 341 BIOSYNTHESIS AND PHYSIOLOGY OF OVARIAN STEROIDS  
Hilliard, Jessamine O. California, U of Los Angeles, Calif  
DHEW Grant HD-1177 \$49,642; 04/62-01/73 \$382,705
- 342 METABOLISM OF ANDROSTENEDIONE AND TESTOSTERONE  
Horton, Richard Southern California, U of Los Angeles, Calif  
DHEW Grant AM-13710 \$25,056; 05/64-03/72 \$191,837



- 356 STEROID 3-BETA-OL-DEHYDROGENASE AND OVARIAN SECRETION  
Rubin, Betty L. Mt Sinai Sch of Med New York, N.Y.  
DHEW Grant HD-3527 \$41,481; 06/68-05/71 \$119,905
- 357 STEROID HORMONE METABOLISM (general biochemical study of steroids  
including estrogen)  
Ryan, Kenneth J. Case Western Reserve U Cleveland, Ohio  
DHEW Grant HD-3055 \$58,274; 09/61-06/70 \$284,157
- 358 MODE OF ACTION OF PROGESTATIONAL HORMONES  
Salhanick, Hilton A. Harvard Sch of Public Hlth Boston, Mass  
DHEW Grant AM-10081 \$45,497; 02/62-08/71 \$463,726
- 359 ESTROGEN METABOLISM IN NORMAL AND CANCEROUS PERSONS  
Slaunwhite, W. Roy Jr Children's Hosp of Buffalo Buffalo, N.Y.  
DHEW Grant CA-11791 \$54,985; 09/70-12/70
- 360 STUDIES IN ANDROGEN METABOLISM  
Southren, A. Louis New York Med Coll New York, N.Y.  
DHEW Grant AM-12845 \$63,730; 06/70-05/73 \$176,963
- 361 MECHANISM OF HORMONE ACTION IN REPRODUCTIVE ORGANS (interaction  
testicular and ovarian steroids with sex accessory organs)  
Spaziani, Eugene Iowa, U of Iowa City, Iowa  
DHEW Grant HD-0446 \$22,956; 06/60-04/73 \$294,172
- 362 STUDIES ON STEROID HORMONE RECEPTORS (in the uterus and oviduct)  
Taft, David O. Vanderbilt U Nashville, Tenn  
DHEW Contract (NICHD) NIH 70-2165 \$40,088; 06/70-06/71 \$40,088
- 363 A STUDY OF ADRENAL AND OVARIAN SECRETIONS (determination of  
steroids in blood, urine and tissue and study of metabolic  
pathways)  
Touchstone, Joseph C. Pennsylvania, U of Philadelphia, Pa  
DHEW Grant HD-1199 \$64,375; 09/57-05/73 \$617,084
- 364 MECHANISM OF ACTION OF STEROID HORMONES (sex hormones)  
Villette, Claude A. Jr Harvard U Boston, Mass  
DHEW Grant HD-1232 \$26,460; 09/54-08/70 \$305,947
- 365 BIOSYNTHESIS AND ACTION OF STEROIDS  
Warren, James C. Kansas, U of Med Sch Kansas City, Kansas  
DHEW Grant AM-5546 \$17,907; 09/61-08/72 \$211,117
- 366 EXTRAHEPATIC METABOLISM OF STEROIDS (progesterone)  
Wiest, Walter G. Washington U St Louis, Mo  
DHEW Grant AM-9125 \$77,282; 01/62-03/75 \$725,667
- 367 METABOLISM OF NATURAL AND SYNTHETIC ESTROGENS  
Williams, Kenneth I. H. Worcester Fdn Exptl Biol  
Shrewsbury, Mass  
DHEW Grant AM-13582 \$23,408; 05/69-04/72 \$67,228
- 368 ACTION OF HORMONES ON PROTEIN AND RNA METABOLISM  
Wilson, Jean Texas, U of Southwestern Med Sch Dallas, Tex  
DHEW Grant AM-3892 \$28,125; 06/60-05/71 \$288,125
- 369 THE INDUCTION OF HISTIDINE DECARBOXYLASE ACTIVITY BY ESTROGEN AND  
PROGESTERONE

Zeppa, Robert U.S. Vet Adm Hosp Miami, Fla  
VA Intramural ZO-25578

PHARMACOLOGICAL STUDIES OF NATURAL OR SYNTHETIC  
AGENTS (other than presently used contraceptives)  
AFFECTING REPRODUCTION AND FERTILITY

- 370 THE DEVELOPMENT OF INHIBITORS TO ESTROGEN BIOSYNTHESIS  
Brodie, Harry J. Worcester Fdn Exptl Biol  
Shrewsbury, Mass  
DHEW Contract(NICHD) NIH 70-2158 \$43,634; 06/70-06/71 \$43,634
- 371 COMBINED AGENT FOR DISEASE PROPHYLAXES AND CONTRACEPTION  
Cutler, John C. Pittsburgh, U of Pittsburgh, Pa  
AID Contract 931-17-570-526 \$581,000; 06/70-06/73 \$581,000
- 372 PROTEIN BINDING OF CORTICOSTEROID (STUDIES OF THE INFLUENCE OF  
various estrogenic preparations, progestational and  
anabolic agents)  
Doe, Richard P. U.S. Vet Adm Hosp Minneapolis, Minn  
VA Intramural ZO-6195
- 373 THE EFFICACY OF TESTOSTERONE FILLED IMPLANTS IN RABBITS  
Ewing, Larry L. Okla St U Agr App Sci Stillwater, Okla  
DHEW Contract(NICHD) NIH 70-2152 \$28,917; 05/70-05/71 \$28,917
- 374 SITE OF ACTION OF CLOMIPHENE (induction of ovulation and alteration  
of hypothalamic-hypophyseal function)  
Gellert, Ronald J. Pacific Northwest Res Fdn Seattle, Wash  
DHEW Grant HD-3588 \$7,165; 05/68-12/70 \$53,170
- 375 DEVELOPMENT OF INHIBITORS OF LH RELEASING FACTORS AS CONTRACEPTIVE  
AGENTS  
Guillemin, Roger Salk Inst Biological Studies San Diego, Calif  
AID Contract 931-17-570-518 \$2,255,000; 06/70-05/73 \$2,255,000
- 376 ONCE-A-MONTH CONTRACEPTIVE PILL (role of corpus luteum)  
Harper, Michael J. K. Worcester Fdn Exptl Biol Shrewsbury, Mass  
AID Contract 931-17-580-493 ; 06/68-06/71 \$109,000
- 377 MECHANISMS OF DESTRUCTION OF TESTICULAR CELLS FOLLOWING  
IMMUNIZATION WITH SPECIFIC ANTIGEN  
Katsh, Seymour Colorado, U of Denver Med Ctr Denver, Colorado  
NSF Grant GB-14830 \$32,500(est) 01/70-01/72 \$65,000
- 378 PROSTAGLANDIN AND OTHER RESEARCH FOR DEVELOPMENT OF CONTRACEPTIVES  
Lloyd, Charles W. Worcester Fdn For Exptl Biol  
Shrewsbury, Mass  
AID Contract 931-17-580-520 \$2,980,000; 06/70-06/73 \$2,980,000
- 379 THE NATURE AND MODE OF ACTION OF MALUCIDIN  
Mandl, Ines Columbia U New York, N.Y.  
DHEW Grant HD-3256 \$17,318; 09/67-08/70 \$48,829
- 380 NEW METHODS OF FERTILITY REGULATION (prostaglandins and

- smooth muscle of male sex organs)  
 Risley, Paul Lemuel Oregon, U of Eugene, Oreg  
 DHEW Contract(NICHD) NIH 69-2099 \$34,000; 06/69-06/71 \$65,775
- 381 SCREENING FOR INHIBITORS OF PROGESTERONE SYNTHESIS  
 Salhanick, Hilton A. Harvard U Cambridge, Mass  
 DHEW Contract(NICHD) NIH 70-2319 \$45,120; 06/70-06/71 \$45,120
- 382 CONTRACEPTIVE DEVELOPMENT (ANTI-PROGESTATIONAL ACTIVITY)  
 (interference with progestational stimulation of the endometrium  
 before or at the time of implantation)  
 Segal, Sheldon J. Population Council New York, N.Y.  
 AID Contract 931-17-580-512 06/69-06/73 \$3,000,000

## FERTILITY REGULATION TECHNIQUES PRESENTLY IN USE

### CONTRACEPTIVES

#### Multiple or unspecified

- 383 CHEMICAL RESEARCH ON VARIOUS CONTRACEPTIVE METHODS  
 Koetsawang, Suporn Siriraj Hosp & Med Sch, Mahidol U Thailand  
 AID Other 493-11-580-209 \$4,000; /68- /70 \$8,500
- 384 CLINICAL RESEARCH TRIALS OF VARIOUS CONTRACEPTIVE METHODS  
 Somboonsuk, Aree Chulalongkorn Hosp & Med Sch Bangkok, Thailand  
 AID Other 493-11-580-209 \$2,000; /68- /70 \$12,500
- 385 THE EFFECTS OF PREGNANCY CONTROL DRUGS AND DEVICES ON THE HUMAN  
 MENSTRUAL CYCLE AND ON HEALTH  
 Treloar, Alan E. NICHD Bethesda, Md  
 DHEW Intramural HD-RP6 (9) (c) \$19,200;

#### Steroid contraceptives

- 386 EFFECTS OF PREGNANCY AND STEROIDS ON ARTERIES (including effects  
 of oral contraceptives)  
 Albert, Ernest N. George Washington U Sch of Med Wash, D.C.  
 DHEW Grant HE-12557 \$4,000 (est); 07/68-08/72
- 387 STUDY OF SAFETY OF THE PILL (LIPID IMPLICATIONS) (and effects of  
 iud's)  
 Alvarez, Russell R. de Temple U Philadelphia, Pa  
 DHEW Contract(FDA) 70-64 \$120,000; 06/68- \$308,1277
- 388 ENDOCRINE AND DRUG EFFECT ON THROMBOSIS (treatment with  
 oral contraceptives)  
 Ambrus, Julian L. Roswell Park Mem Inst Springville, N.Y.  
 DHEW Grant HE-11591 \$30,022; 09/67-08/70 \$87,638
- 389 INVESTIGATION ON THE INFLUENCE OF HORMONAL CONTRACEPTIVES ON THE



- CYTOLOGY OF THE CERVIX AND ON FERTILITY AND OUTCOME OF  
PREGNANCY
- Andolsek, Lidiya U Teaching Hosp Obst & Gyn Ljubljana, Yugosl  
DHEW PL-480(FDA) 02-602-3 \$20,200; 07/69-06/75 \$202,000
- 390 PATHOGENESIS OF ARTERIOSCLEROSIS (effects of oral contraceptives  
on blood coagulation)  
Astrup, Tage James F. Mitchell Fdn Washington, D.C.  
DHEW Grant HE-5020 \$15,000(est); 04/62-02/73
- 391 HYPOPHYSEAL RESPONSE TO ESTROGENS AND PROGESTINS  
Baker, Burton L. Michigan, U of Ann Arbor, Mich  
DHEW Grant HD-3159 \$34,542; 05/68-04/72 \$134,491
- 392 THE STUDY ON CHANGES IN COAGULATION (in women on oral contraceptives)  
Bellar, Fritz K. New York U Sch of Med New York, N.Y.  
DHEW Contract(FDA) 69-16 \$29,771; 05/69-05/71 \$56,556
- 393 EFFECT OF ORAL CONTRACEPTIVES ON BODY WATER & ELECTROLYTES  
Blahd, W. H. U.S. Vet Adm Ctr Los Angeles, Calif  
VA Intramural ZO-27691
- 394 STEROIDAL DEFECTS IN HYPERTENSION (effects of oral contraceptives on  
plasma renin activity and aldosterone excretion)  
Crane, Milton G. Loma Linda U Sch of Med Los Angeles, Calif  
DHEW Grant HE-4745 \$4,000(est); 10/59-05/73
- 395 EFFECTS OF CERTAIN CHEMICALS ON PLASMA RENIN (estrogens,  
progestational agents, androgens and oral contraceptives)  
Crane, Milton G. Loma Linda U Sch of Med Los Angeles, Calif  
DHEW Grant HE-11031 \$5,392; 01/67-03/70 \$75,692
- 396 SICKLE CELL DISEASE (including studies on patients receiving oral  
contraceptives)  
Diggs, Lemuel W. Tennessee U Coll of Med Memphis, Tenn  
DHEW Grant HE-7275 \$5,000(est); 06/62-12/70
- 397 METABOLISM OF PLASMA LIPOPROTEINS (effect of oral contraceptives -  
non-estrogen and estrogen)  
Eder, Howard A. Albert Einstein Coll of Med New York, N.Y.  
DHEW Grant HE-2965 \$10,000(est); 12/56-06/71
- 398 ENZYME FACTORS INFLUENCING INTRAVASCULAR FIBRINOLYSIS (of women  
taking oral contraceptives)  
Fletcher, Anthony P. Washington U Sch of Med St. Louis, Mo  
DHEW Grant HE-3745 \$8,000(est); 07/58-08/74
- 399 RESEARCH AND DEVELOPMENT OF ORAL CONTRACEPTIVE AGENTS AND  
THROMBOEMBOLIC COMPLICATIONS  
Fletcher, Anthony P. Washington U Sch of Med St. Louis, Mo  
DHEW Contract(FDA) 70-55 \$49,968; 06/70-06/72 \$49,968
- 400 STUDY OF DIFFERENTIAL EFFECTS OF ESTROGEN AND PROGESTIN AS  
CONTRACEPTIVE AGENTS  
Gershbarg, Herbert New York U Med Ctr New York, N.Y.  
DHEW Contract(FDA) 70-222 \$75,930; 06/70-06/71 \$75,930
- 401 PROGESTINS, TRIGLYCERIDE, AND LIPOPROTEIN LIPASE (progestational

- compounds)  
 Glueck, Charles J. Cincinnati, U of Cincinnati, Ohio  
 DHEW Grant HD-4851 \$12,277; 05/70-04/73 \$33,847
- 402 SAFETY OF CONTRACEPTIVE STEROIDS  
 Goldzieher, Joseph W. Southwest Fdn Res & Educ San Antonio, Tex  
 AID Contract 931-17-570-521 \$913,000; 06/70-06/73 \$913,000
- 403 HORMONAL CONTROL OF ZINC METABOLISM (in subjects taking oral  
 contraceptives)  
 Halsted, J. A. U.S. Vet Adm Hosp Washington, D.C.  
 VA Intramural ZO-28587
- 404 COLLABORATIVE STUDY OF ORAL CONTRACEPTION  
 Heyman, Albert Duke U Durham, N.C.  
 DHEW Contract (NICHD) NIH 69-2250 \$101,636; 06/69-06/71 \$240,496
- 405 PATHOGENESIS OF HEMORRHAGE AND THROMBOSIS (including the  
 effects of oral contraceptives on blood clotting mechanisms)  
 Hoak, John C. Iowa, U of Coll of Med Iowa City, Iowa  
 DHEW Grant HE-9862 \$2500 (est); 09/65-02/71
- 406 CYTOGENETIC STUDY OF IMMEDIATE POST-OC ABORTION  
 Jacobsen, Cecil B. George Washington U Med Ctr Washington, D.C.  
 DHEW Contract (FDA) 70-74 \$59,650; 06/70-05/71 \$59,650
- 407 SYSTEMATIC STUDY OF METHODS TO PRODUCE PRE-ECLAMPSIA (treatment  
 with enovid R)  
 Langford, Herbert G. Mississippi U Sch of Med Jackson, Miss  
 DHEW Grant HE-9192 \$43,740; 10/64-04/71 \$220,113
- 408 ELECTROLYTES AND HORMONES IN EDEMA AND HYPERTENSION (effect of  
 oral contraceptives on blood pressure)  
 Laragh, John H. Columbia U New York, N.Y.  
 DHEW Grant HE-1275 \$12,000 (est); 12/52-11/72
- 409 CHROMOSOMAL BREAKS IN WOMEN USING ORAL CONTRACEPTIVES  
 Littlefield, Gayle U.S. Atomic Energy Comm Oak Ridge, Tenn  
 DHEW R. Agremt (NICHD)-0011 \$17,000; 07/68-06/70 \$76,090
- 410 CONTRACEPTIVES AND MAMMARY CANCER  
 Mc Carthy, Jack D. Lovelace Fdn for Med Educ and Res  
 Albuquerque, New Mexico  
 DHEW Grant CA-8801 \$4,000; 05/67-06/70 \$64,820
- 411 REGULATION OF ALDOSTERONE SECRETION (blood pressure measurements  
 on administration of oral contraceptives)  
 Mulrow, Patrick J. Yale U Sch of Med New Haven, Conn  
 DHEW Grant HE-12758 \$7,500 (est); 12/69-11/74
- 412 ORAL CONTRACEPTIVES AND TUMORS OF THE BREAST  
 Paffenbarger, Ralph S. Jr California, U of Berkeley, Calif  
 DHEW Contract (NICHD) NIH 70-2185 \$60,880;
- 413 QUANTITATIVE IMMUNOASSAY OF ANGIOTENSIN (in women, before and  
 after taking oral contraceptives)  
 Page, Lot B. Newton-Wellesley Hosp Newton, Mass  
 DHEW Grant HE-11015 \$4,194; 10/66-08/70 \$207,458

- 414 CONDUCT A CONTRACEPTIVE DRUG STUDY  
Pellegrin, Frederick A. Kaiser Fdn Hospitals Oakland, Calif  
DHEW Contract (NICHD) PH-43-67-1346 \$799,982; 06/67-12/70 \$2,009,942
- 415 EFFECTS OF PROGESTINS ON UTERINE CONTRACTILE ACTIVITY  
Reinke, David A. Michigan State U East Lansing, Mich  
DHEW Grant HD-3548 \$5,106; 05/68-04/70 \$22,224
- 416 A STUDY OF THE INCIDENCE OF URINARY TRACT INFECTIONS IN FEMALES  
USING ORAL CONTRACEPTIVES  
Rudolph, Jerome H. Rochester, U of Sch of Med Rochester, N.Y.  
DHEW Contract (FDA) 69-18 ; 05/69-10/71 \$77,187
- 417 THE STUDY OF MEIOSIS IN THE MALE DOG (effects of progestins on)  
Runyan, J. W. U.S. Vet Adm Hosp Memphis, Tenn  
VA Intramural ZO-27184
- 418 STUDIES OF THE INSULIN SECRETING PROPERTIES OF VARIOUS AGENTS  
(effects of contraceptive drugs)  
Seltzer, Holbrooke S. U.S. Vet Adm Hosp Dallas, Texas  
VA Intramural ZO-10323
- 419 CLINICAL AND ULTRASONIC STUDY OF VENOUS DISEASE (among women taking  
ovulatory suppressive hormones)  
Sigel, Bernard Woman's Med Coll of Pa Philadelphia, Pa  
DHEW Grant HE-11774 \$37,000; 05/68-11/71 \$111,436
- 420 EFFECTS OF ORAL CONTRACEPTIVES ON CERVICAL CYTOLOGY  
Spector, Aaron J. Temple U Philadelphia, Pa  
DHEW Contract (FDA) 70-97 \$590,905; 02/70-01/71 \$685,557
- 421 CARBOHYDRATE METABOLIC STUDIES IN SUBJECTS TAKING ORAL  
CONTRACEPTIVES AND ESTROGENS, BLOOD GLUCOSE AND PLASMA  
INSULIN (control group using IUDS)  
Spellacy, William N. Miami, U of Sch of Med Miami, Fla  
DHEW Contract (FDA) 69-32 \$71,900; 06/67-06/71 \$225,337
- 422 METABOLIC ASPECTS OF ORAL CONTRACEPTIVES (control group  
- mechanical contraceptives)  
Stampar, Dubravka Inst for Mother & Child Wel Zagreb, Yugoslavia  
DHEW PL-480 (FDA) 02-601-3 07/69-06/73 \$127,000
- 423 CLOTTING IN PLASTIC TUBES, A LABORATORY WAY OF DETECTING  
SUSCEPTIBILITY TO THROMBOEMBOLISM (including effects of oral  
contraceptives)  
Staub, Roy T. U.S. Vet Adm Hosp New Orleans, La  
VA Intramural ZO-27062
- 424 PHYSIOLOGIC EFFECTS OF EXPERIMENTAL PULMONARY EMBOLISM (including  
effects of gonadal hormones and steroid contraceptives)  
Stein, Myron Memorial Hosp Pawtucket, R.I.  
DHEW Grant HE-13269 \$28,500;
- 425 STEROID CONTRACEPTION AND CERVICAL DYSPLASIA  
Stern, Elizabeth California, U of Los Angeles, Calif  
DHEW Contract (NICHD) PH-43-67-1389 \$129,315; 07/67-06/71 \$389,944
- 426 THE STUDY OF THE RELATIONSHIP BETWEEN THROMBOEMBOLISM AND USE OF

# ORAL CONTRACEPTIVES

Stolley, Paul D. /Sartwell, Philip E. J. Hopkins U Baltimore, Md  
DHEW Contract(FDA) 70-23 \$55,643;

- 427 FOLIC ACID ABSORPTION AND TRANSPORT (folate deficiency anemia and oral contraceptives)  
Streiff, R. U.S. Vet Adm Hosp Gainesville, Fla  
VA Intramural ZO-27855
- 428 ORAL CONTRACEPTIVE ANIMAL STUDY  
Wazeter, Francis X. International Res & Devel Mattawan, Mich  
DHEW Contract(FDA) 68-45 \$40,000; 06/68-06/78 \$632,000
- 429 RETROSPECTIVE STUDY OF ORAL CONTRACEPTIVES & CANCER RISK  
White, Colin Yale U New Haven, Conn  
DHEW Contract(NICHD) NIH 70-2181 \$98,796; 06/70-10/71 \$98,796
- 430 STUDY METABOLIC EFFECTS OF ORAL CONTRACEPTIVES  
Wynn, Victor London, U of London, England  
DHEW Contract(NICHD) PH-43-67-1344 \$42,720; 06/67-06/71 \$171,620
- 431 INVESTIGATION OF THE INFLUENCE OF HORMONAL CONTRACEPTIVES ON THE CYTOLOGY OF THE CERVIX AND ON OUTCOME OF PREGNANCY  
Zarkovic, Gruzica Inst of Hygiene & Social Med Sarajevo, Yugosl  
DHEW PL-480(FDA) 02-603-3 \$10,500; 01/70-12/76 \$178,000
- 432 UROKINASE PULMONARY EMBOLISM TRIAL (including studies on the effect of oral contraceptives on thromboembolism)  
/ Various Investigators  
DHEW Contract(NHLI) \$25,000 (est); 06/68- /72
- 433 HORMONAL CONTRACEPTIVE STUDY  
/ Fam Plan Council Pakistan  
AID Other ; 07/69- \$18,900
- 434 EFFECT OF ORAL CONTRACEPTION ON WOMEN WITH LIVERFLUKE DISEASE  
/ Provincial Hosp Thailand  
AID Grant ; /68- /70 \$1,750

## Intrauterine devices

- 435 EVALUATION ON FAMILY PLANNING - FAMILY PLANNING EVALUATION CENTER  
(evaluation of contraceptive devices and techniques)  
Bernard, Roger Pathfinder Fund Chestnut Hill, Mass  
AID Contract 931-17-580-478 ; 06/67-06/71 \$1,483,000
- 436 PHYSIOLOGICAL REACTIONS TO IUDS IN ANIMALS  
Hawk, Harold W. Agricultural Res Ctr Beltsville, Md  
DHEW R. Agreant (NICHD)-0001 \$82,000; 01/65-06/70 \$468,350
- 437 DEVELOPMENT OF IMPROVED INTRAUTERINE CONTRACEPTIVE DEVICES  
Wheeler, Robert G. Pacific Northwest Lab Richland, Wash  
AID Contract 931-17-570-527 \$150,000; 07/70-06/73 \$645,000
- 438 CORRELATES OF INTRAUTERINE CONTRACEPTIVE DEVICE  
Winkelstein, Warren Jr California, U of Berkeley, Calif

- DHEW Contract (NICHD) PH-43-67-1391 \$202,318; 06/67-08/71 \$703,155
- 439 QUANTITATIVE EFFECTS OF INTRAUTERINE CONTRACEPTIVE DEVICES (IUDs)  
ON DECIDUOMA DEVELOPMENT IN RATS  
Wrenn, Randall T. Agricultural Res Ctr Beltsville, Md  
USDA Intramural (Cris-19105) \$5,000; 01/69-12/71 \$10,000
- 440 OVERCOMING THE CONTRACEPTIVE EFFECTS OF INTRAUTERINE DEVICES  
Wrenn, Randall T. Agricultural Res Ctr Beltsville, Md  
USDA Intramural (Cris-19105) \$15,000; 06/69-06/72 \$40,000

#### Other

- 441 CONVENTIONAL CONTRACEPTIVE STUDY  
/ Fam Plan Council Pakistan  
AID Other \$786,000; /67- /69

#### STERILIZATION

- 442 RESEARCH ON REVERSIBLE STERILIZATION  
Hulka, J. F. North Carolina, U of Chapel Hill, N.C.  
AID Grant 931-17-580-498 ; 06/69-06/71 \$79,000

## ANIMAL BEHAVIOR AND ECOLOGY

### ANIMAL REPRODUCTIVE BEHAVIOR

- 443 BIO-PSYCHOLOGICAL ASPECTS OF SEX, CYCLICITY & AROUSAL  
(copulatory behavior of male rat)  
Adler, Norman T. Pennsylvania, U of Philadelphia, Pa  
DHEW Grant HD-4522 \$28,867; 09/69-08/72 \$70,649
- 444 EARLY EXPERIENCE AND DEVELOPMENT OF BEHAVIOR  
Arnold, William J. Nebraska, U of Lincoln, Nebraska  
DHEW Grant MH-17377 \$35,161; 09/69-08/71 \$60,530
- 445 BEHAVIORAL EFFECTS OF SELECTED DENERVATION  
Aronson, Lester R. American Museum of Nat Hist New York, N.Y.  
DHEW Grant HD-0348 \$28,406; 09/61-08/74 \$283,261
- 446 ENDOCRINE & NEURAL BASES OF BEHAVIOR  
Barfield, Ronald J. Rutgers, The State U New Brunswick, N.J.  
DHEW Grant HD-4484 \$16,330; 11/69-10/72 \$41,930
- 447 NEUROPHYSIOLOGICAL CORRELATES OF SEXUAL BEHAVIOR

- Caggiula, Anthony R. Pittsburgh, U of Pittsburgh, Pa  
DHEW Grant MH-16581 \$27,427; 04/69-03/72 \$92,296
- 448 ENDOCRINE FACTORS IN THE SOCIAL BEHAVIOR OF ANIMALS  
Erickson, Carl J. Duke U Durham, N.C.  
DHEW Grant HD-4482 \$25,019; 11/69-10/72 \$64,726
- 449 HORMONAL & NEURAL CORRELATES OF REPRODUCTIVE BEHAVIOR  
Gerall, Arnold A. Tulane U New Orleans, La  
DHEW Grant HD-0867 \$82,326; 01/62-05/73 \$564,024
- 450 ENDOCRINOLOGICAL DETERMINANTS OF BEHAVIOR  
Goy, Robert W. Med Res Fdn of Oregon Portland, Oregon  
DHEW Grant MH-8634 \$111,436; 09/63-09/72 \$938,601
- 451 NEUROLOGICAL MECHANISMS IN REPRODUCTIVE BEHAVIOR  
Larsson, Knut Goteborg, U of Goteborg, Sweden  
DHEW Grant HD-0344 \$25,063; 11/61-10/70 \$159,916
- 452 REPRODUCTIVE BEHAVIOR - FACILITATION AND INHIBITION (NEURAL  
regulation, estrogen receptors in the hypothalamus)  
Lisk, Robert D. Princeton U Princeton, N.J.  
DHEW Grant HD-2615 \$37,439; 01/67-12/71 \$161,142
- 453 ENDOCRINE CONTROL OF SEXUAL BEHAVIOR  
Loher, Werner J. California, U of Berkeley, Calif  
DHEW Grant HD-3619 \$14,340; 06/68-03/72 \$56,286
- 454 EXPERIENTIAL FACTORS IN PREGNANCY-BLOCK (neuro-endocrine  
phenomenon involving mating experience which  
predisposes female to pregnancy block)  
Lott, Dale E. California, U of Davis, Calif  
DHEW Grant HD-3209 \$16,001; 11/68-10/71 \$42,924
- 455 SEX BEHAVIOR AND CENTRAL NERVOUS ACTION OF HORMONES  
Meyerson, Bengt Uppsala, U of Uppsala, Sweden  
DHEW Grant HD-4108 \$30,300; 06/69-05/72 \$88,700
- 456 THE EFFECT OF PROLONGED SOCIAL EXPERIENCE ON THE REPRODUCTIVE  
BEHAVIOR OF LABORATORY-REARED MALE RHESUS MONKEYS  
Missakian, Elizabeth A. Lab of Perinatal Physiology San Juan, P.R.  
DHEW Intramural NDS(I) 68-LPP 1570
- 457 THE NEUROANATOMICAL BASIS OF REPRODUCTIVE ACTIVITY IN MALE  
RHESUS MONKEYS  
Myers, Ronald E. Lab of Perinatal Physiology San Juan, P.R.  
DHEW Intramural NDS(I) 68-LPP 1569
- 458 BEHAVIORAL AND ENDOCRINE COORDINATION IN MAMMALS  
Vandenbergh, John G. North Carolina Fdn Mental Hlth Raleigh, N.C.  
DHEW Grant MH-16870 \$10,210; 05/69-04/72 \$24,000
- 459 EFFECTS OF PREPUBERAL STRESS ON ADULT SEXUAL BEHAVIOR  
Ward, Ingeborg L. Villanova U Villanova, Pa  
DHEW Grant HD-4688 \$22,793; 01/70-12/71 \$40,611
- 460 HORMONAL CONTROL OF BEHAVIOR  
Whalen, Richard E. California, U of Irvine, Calif  
DHEW Grant HD-0893 \$30,842; 05/63-05/73 \$257,920

- 461 BEHAVIOR, HORMONES AND BRAIN FUNCTION  
Zucker, Irving California, U of Berkeley, Calif  
DHEW Grant HD-2982 \$29,365; 05/67-04/75 \$207,025

## ANIMAL POPULATION; EFFECTS OF POPULATION DENSITY

- 462 HORMONAL DYNAMICS AND ANIMAL NUMBERS  
Adams, Lowell California, U of San Francisco Med Ctr S.F., Calif  
DHEW Grant GM-11993 \$48,077; 06/67-05/72 \$244,116
- 463 SELECTION IN NATURAL AND EXPERIMENTAL POPULATIONS  
Anderson, Wyatt W. Yale U New Haven, Conn  
DHEW Grant HD-5055 \$32,001; 06/70-05/73 \$80,621
- 464 EVOLUTION OF VERTEBRATE SOCIAL SYSTEMS  
Emlen, John T. Wisconsin, U of Madison, Wisconsin  
NSF Grant GB-15304 \$22,500 (est); 09/69-09/72 \$45,000
- 465 POPULATION STUDIES: POPULATION GROWTH IN MICE, AND OPTIMUM  
POPULATION GROWTH IN HUMANS  
Rosenthal, David National Inst of Mental Hlth Bethesda, Md  
DHEW Intramural (NIMH)
- 466 A STUDY OF ENERGY FLOW AND MINERAL CYCLING IN THE OLD FIELD MOUSE  
(peromyscus polionotus)  
Smith, Michael H. Georgia, U of Athens, Ga  
AEC Grant AT(38-1) 310 \$12,000; 06/70-05/71 \$12,000
- 467 SOCIAL STRESS IN FREE-LIVING RODENTS  
Stokes, Allen W. Utah State U Logan, Utah  
DHEW Grant HD-2640 \$18,865; 12/66-12/72 \$72,922
- 468 POPULATION CONTROL, BEHAVIOR & REPRODUCTIVE INHIBITION  
(of small animals)  
Terman, C. Richard William and Mary, Coll of Williamsburg, Va  
DHEW Grant HD-4787 \$21,153; 01/70-12/72 \$72,891

## SOCIAL SCIENCES

### DEMOGRAPHY AND SOCIOLOGY

#### MULTIPLE OR UNSPECIFIED

- 469 THE DEVELOPMENT OF MEASURES OF UNWANTED CHILDBEARING  
Israel, Robert A. USDHEW Nat Ctr for Hlth Statistics Wash, D.C.

DHEW R. Agremt (NICHD)-0010 \$11,486; 05/68-02/70 \$82,906

- 470 EVOLUTIONARY DYNAMICS OF HUMAN POPULATIONS  
Johnston, Francis E. Texas, U of Austin, Texas  
NSF Grant GS-3038 \$5,600; 06/70-12/70 \$5,600
- 471 THE DEVELOPMENT OF MODERNISM AND DEMOGRAPHIC CHANGE  
Schnaiberg, Allan Northwestern U Evanston, Ill  
DHEW Grant HD-4997 \$15,916; 06/70-05/72 \$19,191
- POPULATION GROWTH OR CHANGE
- 472 POPULATION RESEARCH BY COMPUTER SIMULATION  
Agarwala, S. N. Demographic Res Training Ctr Chembur, India  
DHEW PL-480 (NCHS) 01-651-2 \$8,944 (est); 05/65-06/71 \$53,655
- 473 SOCIO-ECONOMIC EFFECTS OF DIFFERENT RATES OF POPULATION GROWTH  
Ayala, Fernando Jose CEPADES Asuncion, Paraguay  
AID Grant 526-11-580-085 \$9,000; 06/70-12/70 \$9,000
- 474 COMMUNITY ADJUSTMENT TO SOCIAL CHANGE IN THE NORTH CENTRAL REGION  
Beegle, J. A. Michigan State U East Lansing, Mich  
USDA Grant MICL-00017 \$22,459; 08/48- \$189,363
- 475 DETERMINANTS OF POPULATION GROWTH STUDY  
Eason, Warren W. Ohio State U Columbus, Ohio  
DHEW Contract (NICHD) NIH 70-2191 \$52,700; 06/70-06/71 \$52,700
- 476 SOCIO-ECONOMIC STUDY (effect population growth)  
Ibarra, Enrique Inst Desarrollo Integral Armonico  
Asuncion, Paraguay  
AID Grant 526-11-580-085 \$53,000; 04/70-04/71 \$53,000
- 477 CURRENT POPULATION TRENDS AND CHANGES IN MONTANA  
Kraenzel, C. F. Montana State U Bozeman, Montana  
USDA Grant MONB-00451 ; 10/60-06/71 \$19,344
- 478 MEASUREMENT METHODS FOR POPULATION CHANGE  
Linder, Forrest E. North Carolina, U of Chapel Hill, N.C.  
DHEW Grant HD-3441 \$148,137; 05/68-04/71 \$423,369
- 479 DETERMINANTS AND CONSEQUENCES OF POPULATION TRENDS  
Mayo, Selz C. North Carolina State U Raleigh, N.C.  
USDA Grant NC-3266 \$14,430; 07/68-06/72 \$27,730
- 480 DEMOGRAPHIC ANALYSIS OF ETHNOGRAPHIC DATA FOR THE USSR (detailed  
analysis of mortality and fertility rates)  
Mazur, D. Peter Western Washington State Coll Bellingham, Wash  
NSF Grant GS-3113 \$12,850 (est); 06/70-06/72 \$25,700
- 481 NATIONAL LONGITUDINAL SURVEY OF DEMOGRAPHIC, ECONOMIC AND SOCIAL  
CHANGES  
Prachuabmoh, Visid Inst of Population Studies Thailand  
AID Otaer 493-11-580-209 \$14,000; /69- /72 \$47,000
- 482 POPULATION DYNAMICS AND IMPROVEMENT OF VITAL REGISTRATION



- Ranganathan, K. U. Inst Rural Hlth Fam Plan Gandhigram, India  
DHEW PL-480(NCHS) 01-650-2 \$38,970(est); 07/69-06/75 \$194,852
- 483 EVALUATION OF SAMPLE REGISTRATION PROBLEMS AT DISTRICT LEVEL  
Sekhar, A. Chandra Off of Registrar General New Delhi, India  
DHEW PL-480(NCHS) 01-655-2 \$14,120(est); 05/66-05/72 \$84,698
- 484 NEW ESTIMATION TECHNIQUES FOR DEMOGRAPHIC ANALYSIS  
Sheps, Mindel C. North Carolina, U of Chapel Hill, N.C.  
DHEW Contract(NICHD) NIH 70-2187 \$75,579; 06/70-06/71 \$75,579
- 485 MICROSIMULATION OF POPULATION CHANGE  
Sirken, Monroe G. /Horwitz, Daniel HSMHA Rockville, Md  
DHEW Contract/Intramural(NCHS) \$50,000; 07/66- \$350,000
- 486 DESIGN OF MULTIPLICITY SURVEYS TO ESTIMATE COMPONENTS OF  
POPULATION CHANGE  
Sirken, Monroe G. HSMHA Rockville, Md  
DHEW Contract/Intramural(NCHS) \$30,000; 02/68-
- 487 ANALYSIS OF POPULATION TRENDS AND THEIR IMPACT  
Skrabanek, R. L. Texas A & M U College Station, Texas  
USDA Grant TEX-01268 \$10,000; 09/60-06/71 \$102,578
- 488 CHANGES IN RURAL SOCIAL PATTERNS RELATED TO SUBURBANIZATION  
Stockwell, E. G. Connecticut, U of Storrs, Conn  
USDA Grant CONS-0246 \$13,348; 06/56- \$161,450
- 489 CONSEQUENCES OF CHANGING SOCIAL ORGANIZATION IN THE NORTHEAST  
Thomas, D. W. Pennsylvania State U University Park, Pa  
USDA Grant PEN-01506 \$2,307; 06/64- \$34,365
- 490 POPULATION GROWTH SURVEY (PGS)  
/ Fam Plan Council Pakistan  
AID Other /68- \$196,400
- 491 POPULATION PROJECTIONS PROJECT  
/ Inst of Statistical Res & Training, Dacca U Dacca, E. Pakistan  
AID Other /67- \$10,700

#### POPULATION CHARACTERISTICS AND DISTRIBUTION

- 492 COMPOSITION AND CHANGES IN FARM AND RURAL POPULATION  
Beale, Calvin L. U.S. Dept of Agriculture Washington, D.C.  
USDA Intramural ED1-1-54-00 \$16,000; /44-
- 493 AN ENVIRONMENTAL APPROACH TO HUMAN STRESS (interaction of density and  
overcrowding with other physical and social variables)  
Carson, Daniel H. Pennsylvania State U University Park, Pa  
DHEW Grant(NCHSRD) HS-0286 \$10,000; 06/69-03/71 \$20,430
- 494 COMPARATIVE INTERNATIONAL STUDY OF LABOR FORCE GROWTH AND STRUCTURE  
Durand, John D. /Miller, Ann R. Pennsylvania, U of Phila, Pa  
NSF Grant GS-2787 \$57,800; 09/69-09/70 \$57,800
- 495 SOCIOECONOMIC VARIATIONS IN MARRIAGE & FERTILITY-1967

- Glick, Paul C. U.S. Dept of Commerce-Bur of Census Wash, D.C.  
DHEW R. Agrent (NICHD)-0012 \$23,000; 02/69-06/70 \$41,000
- 496 URBAN GROWTH PATTERN RESEARCH  
Lee, E. S. /Nelson, K.P. Oak Ridge Nat Laboratory Oak Ridge, Tenn  
HUD Contract IAA-H-35-70 \$195,000; 05/70-06/71 \$195,000
- 497 CENSUS / NATIONAL BUREAU OF ECONOMIC RESEARCH CONSUMER ANTICIPATION  
PROJECT (a research element of the primary project which is  
the Survey of Consumer Buying Expectations) (including family  
size and short term birth expectations)  
Mc Neil, J. M. / Juster, F. Thomas Suitland, MD  
Commerce/NBER Intramural \$20,000; 05/68-06/72 \$145,000
- 498 MIDDLE EAST SURVEY OF FAMILY PLANNING POLICIES AND DEMOGRAPHIC  
PATTERNS  
Omran, Abdel North Carolina, U of Chapel Hill, N.C.  
AID Grant 298-15-995-017 ; 07/69-07/71 \$86,000
- 499 HUMAN TERRITORIALITY IN HOME AND NEIGHBORHOOD  
Schefflen, Albert E. Jewish Family Service New York, N.Y.  
DHEW Grant MH-18162 \$22,450; 09/69-08/73 \$86,666
- 500 DEMOGRAPHIC STUDIES IN RURAL EAST PAKISTAN  
/ Inst of Statistical Research & Training, Dacca U East Pakistan  
AID Other ; /70- /74

#### FERTILITY

##### Multiple or unspecified

- 501 THE DEMOGRAPHIC TRANSITION IN A CHANGING SOCIETY  
Breznik, Dusan Demographic Res Ctr, Inst Soc Sciences  
Belgrade, Yugoslavia  
DHEW PL-480 (NCHS) 02-650-2 \$75,830 (est); 02/69-01/73 \$303,321
- 502 AN ANALYSIS OF THE DECLINE OF FERTILITY IN EUROPE (by province  
from the time of high and relatively constant fertility  
to the present)  
Coale, Ansley J. Princeton U Princeton, N.J.  
DHEW Contract (NICHD) NIH 70-2077 \$68,670; 03/70-08/70 \$68,670
- 503 A STUDY OF VARIATIONS IN COGNITIVE STYLES  
Cogswell, Betty E. North Carolina, U of Chapel Hill, N.C.  
DHEW Contract (NICHD) NIH 69-2167 \$26,765; 06/69-06/71 \$52,545
- 504 FERTILITY AND FAMILY PLANNING IN TAIWAN  
Freedman, Ronald Michigan, U of Ann Arbor, Mich  
DHEW Grant HD-3002 \$105,204; 09/67-08/71 \$381,017
- 505 SURVEY METHODOLOGY FOR MEASUREMENT OF FERTILITY  
George, A. Dept of Statistics, Kerala, U of Trivandrum, India  
DHEW PL-480 (NCHS) 01-652-2 \$9,651 (est); 07/65-09/70 \$48,256
- 506 URBANIZATION, MIGRATION AND FERTILITY IN THAILAND  
Goldstein, Sidney Brown U Providence, R.I.

- DHEW Contract(NICHD) NIH 70-2190 \$28,647; 06/70-05/71 \$28,647
- 507 POPULATION SURVEY IN ETHNIC GROUPS  
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md  
DHEW R. Agremt(NICHD)-0014 \$25,000; 04/70-04/71 \$25,000
- 508 WOMEN BY NUMBER OF OWN CHILDREN UNDER 5 YEARS OLD: MARCH 1969  
(Current Population Reports, Series P-20, No. 205)  
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md  
DHEW/Commerce R. Agremt/Intramural 34-0600 \$6,000; 03/69-07/70 \$10,00
- 509 FERTILITY OF THE POPULATION: January 1969  
(Current Population Reports, Series P-20, No. 203)  
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md  
DHEW/Commerce R. Agremt/Intramural \$10,000; 01/69-07/70 \$18,000
- 510 EXPECTED FUTURE BIRTHS AND OTHER DATA ON MARRIAGE, FERTILITY AND  
CHILDSPACING: February-March 1967 (Current Population Reports,  
Series P-20)  
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md  
DHEW/OEO/Commerce R. Agremt/Intramural \$25,000; 02/67-11/70 \$60,000
- 511 CULTURAL INFLUENCES ON HUMAN FERTILITY  
Gulick, John North Carolina, U of Chapel Hill, N.C.  
NSF Grant GS-3108 \$36,100; 07/70-09/71 \$36,100
- 512 DEMOGRAPHIC TRANSITION WITHOUT URBANIZATION  
Hackenberg, Robert A. Colorado, U of Boulder, Colo  
DHEW Contract(NICHD) NIH 69-2224 \$21,139; 06/69-06/71 \$115,314
- 513 DETERMINANTS OF FAMILY PLANNING ATTITUDES AND PRACTICES  
Heer, David M. Harvard U Sch of Public Hlth Cambridge, Mass  
AID Contract 931-17-570-497 ; 06/69-09/72 \$106,000
- 514 SOCIO-ECONOMIC FACTORS IN THE REDUCTION OF NATALITY  
Kirk, Dudley Stanford U Stanford, Calif  
DHEW Contract(NICHD) NIH 70-2189 \$60,902; 06/70-06/71 \$60,902
- 515 ANALYSIS OF SENSITIVE MEASURES OF FERTILITY CHANGE  
Raina, B. L. Central Fam Plan Inst New Delhi, India  
DHEW PL-480(NCHS) 01-660-2 \$73,360; 07/69-06/70 \$73,360
- 516 ANTHROPOLOGICAL STUDY OF SOCIAL EFFECTS OF INTRODUCING MODERN METHODS  
OF POPULATION CONTROL  
Reddy, Subba N. Andhra U Waltair, India  
DHEW PL-480(Fogarty) 01-076-1 \$15,528; 07/70-07/72 \$34,190
- 517 FIELD STUDY OF POPULATION PRESSURE IN INDIA  
Revelle, Roger Harvard U Boston, Mass  
DHEW Grant HD-3460 \$100,231; 01/70-12/71 \$190,421
- 518 DETERMINANTS OF HUMAN FERTILITY PATTERNS  
Schultz, Paul T. Jr Rand Corp Santa Monica, Calif  
AID Contract 931-17-570-824 ; 06/68-09/70 \$143,000
- 519 FERTILITY DETERMINANTS: A THEORETICAL INQUIRY FOR THE DESIGN AND  
EVALUATION OF POPULATION POLICY  
Schultz, Paul T. Jr Rand Corp Santa Monica, Calif  
AID Contract 931-17-570-517 ; 01/70-01/73 \$327,000

- 520 ANALYTICAL STUDY OF FERTILITY INDICATORS  
Srinivasan, K. Inst Rural Hlth & Fam Plan Gandhigram, India  
DHEW PL-480 (NCHS) 01-653 \$8,000(est); 04/66-10/69 \$24,038
- 521 COLLECTION OF DATA ON FAMILY PLANNING ACTIVITIES IN THE ATLANTA AREA  
Tyler, Carl W. Jr / Hatcher, Robert A. Emory U Atlanta, Ga  
DHEW Contract(CDC) HSM-21-69-507 \$9,188; 06/70-06/71 \$9,188
- 522 PREGNANCY PREVALENCE, WASTAGE, NAD INTERNAL STUDY  
/ East Pakistan Res & Evaluation Ctr Dacca, East Pakistan  
AID Other ; /68- /71 \$31,000
- 523 METROPOLITAN VALPARAISO FERTILITY SURVEY  
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile  
AID Other 513-11-570-237 ; 10/68-03/70 \$14,500
- 524 NATIONAL ABORTION AND KAP SURVEY  
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile  
AID Other 513-11-570-237 ; 09/69-09/71 \$46,800
- 525 INDIGENOUS FERTILITY AND ABORTION  
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile  
AID Other 513-11-570-237 ; 01/69-01/70 \$12,000
- 526 EVALUATION OF NORTH SANTIAGO TEACHER TRAINING IN SEX EDUCATION  
/ Nat Hlth Serv Santiago, Chile  
AID Other 513-11-580-236 ; 10/69-03/70 \$2,200
- 527 CONCEPCION STUDENTS', PARENTS', TEACHERS' ATTITUDES REGARDING  
SEX EDUCATION  
/ Ctr Teacher Training & Res, Ministry of Educ Santiago, Chile  
AID Other 513-11-580-236 ; 07/69-12/69 \$2,500
- 528 SURVEY OF FERTILITY AND CONTRACEPTIVE PRACTICES  
Westoff, Charles F. Princeton U Princeton, N.J.  
DHEW Contract(NICHD) PH-43-65-1048 \$212,260; 06/65-08/70 \$697,029

#### KAP studies and contraceptive practices

- 529 KOREAN ATTITUDES AND BIRTH CONTROL BEHAVIOR  
Chung, Bom Mo Korean Inst Res in the Behavior Sci Seoul, Korea  
AID Other 489-649-3-00052 \$230,000; 06/70-10/71 \$230,000
- 530 SOME ATTITUDE TRENDS TOWARD POPULATION CONTROL IN WESTERN EUROPE  
Crespi, Leo P. U.S. Information Agency Washington, D.C.  
USIA Intramural/Contract
- 531 URBAN ATTITUDE TRENDS ON POPULATION ISSUES IN THAILAND AND  
THE PHILIPPINES  
Crespi, Leo P. U.S. Information Agency Washington, D.C.  
USIA Intramural/Contract
- 532 STUDY OF PAPAL ENCYCLICAL  
Duarte, A. N. Acha Paraguayan Ctr Population Studies  
Asuncion, Paraguay

- AID Grant 526-11-580-085 \$1,500; 06/70-06/71 \$1,500
- 533 RURAL HEALTH SERVICES & FAMILY PLANNING UTILIZATION IN INDIA  
(a study of intrauterine devices in A Rural Health Center)  
Taylor, Carl E. Christian Med Coll Punjab, India  
DHEW PL-480(NCHSRD) 01-701-2 ; 04/65-06/71 \$416,188
- 534 POPULATION/FAMILY PLANNING (KAP SURVEY)  
Uyen, Tu Res Comm on Fam Plan Saigon, South Viet Nam  
AID Other ; 06/68-12/70
- 535 BRAC FILIPINO FAMILY SURVEY  
/ Inst of Philippine Cult, Ateneo de Manila U Manila, Philippines  
AID Other ; 10/69-02/70
- 536 DEMOGRAPHIC SURVEY AND KAP STUDY (AFGHANISTAN)  
/ State U of NY at Buffalo, Albany, N.Y.  
AID Other 306-11-570-110 \$49,000; /69- \$84,0000
- 537 PARENTS', TEACHERS' AND 7th AND 8th GRADE STUDENTS' ATTITUDES TOWARD  
SEX AND FAMILY LIFE  
/ Group of Private Sociologists Santiago, Chile  
AID Other 513-11-580-236 ; 11/69-10/70 \$31,800
- 538 ATTITUDES TOWARD FAMILY LIFE  
/ Dept of Family Educ, Catholic U Santiago, Chile  
AID Other 513-11-580-236 ; 10/69-03/70
- 539 ATTITUDES TOWARD DATING AND SEX AMONG ADOLESCENTS  
/ Ctr Med-Social Anthropol, Chile, U of Med Sch Santiago, Chile  
AID Other 513-11-580-236 ; 10/69-03/70 \$2,000
- 540 FUTURE MOTHERS' KNOWLEDGE OF HUMAN SEXUALITY  
/ Catholic U, Sch of Med Santiago, Chile  
AID Other 513-11-580-236 ; 10/69-03/70 \$2,600
- 541 PRIMARY SCHOOL TEACHERS' KNOWLEDGE AND ATTITUDES COI NING  
SEX EDUCATION  
/ Ctr Teacher Training & Res, Ministry of Educ S iago, Chile  
AID Other 513-11-580-236 ; 07/69-12/69 \$2,400

#### Out-of-wedlock births

- 542 ILLEGITIMACY - DEMOGRAPHIC AND SOCIOLOGIC STUDIES  
Davis, Kingsley California, U of Berekeley, Calif  
DHEW Contract(NICHD) NIH 70-2196 \$86,969; 06/70-06/71 \$86,969
- 543 THE PREVENTION OF ADOLESCENT ILLEGITIMACY  
Furstenberg, Frank F. Jr Pennsylvania, U of Philadelphia, Pa  
DHEW Grant MH-17643 ; 06/69-09/70 \$6,183
- 544 CONTEXT AND CAUSES OF ILLEGITIMATE BIRTHS  
Gibbs, James O. Emory U Atlanta, Ga  
DHEW Grant HD-4603 \$12,686; 11/69-10/71 \$18,708
- 545 RESOLUTIONS BY TEENAGE MOTHERS OF A STATUS DILEMA

Wiltse, Kermit T. California, U of Berkeley, California  
DHEW Grant MH-15471 \$56,364; 12/68-11/71 \$124,734

#### Induced abortion

- 546 COMPONENTS OF REPEATED ABORTION-SEEKING BEHAVIOR  
David, Henry P. Amer Inst Res Behav Sci Silver Spring, Md  
DHEW Contract(NICHD) NIH 70-2193 \$15,325; 06/70-06/71 \$15,325
- 547 NATIONAL ABORTION STUDY  
Morales, Julio Manuel Inst for Study of Reprod Asuncion, Paraguay  
AID Grant 526-11-580-085 \$20,000; 06/70-04/71
- 548 THE EPIDEMIOLOGY OF OUTCOME OF PREGNANCY IN DIVERSE CULTURES IN  
SELECTED COUNTRIES (including incidence of induced abortions)  
Rider, R. V. /Harper, P. A. / Chow, B. J Hopkins U Baltimore, Md  
AID Contract 931-17-570-496 ; 05/69-05/72 \$194,000
- 549 A NATIONAL ABORTION SURVEY  
Tietze, Christopher Population Council, The New York, N.Y.  
DHEW Contract(NICHD) NIH 70-2293 \$78,954; 06/70-06/71 \$78,954
- 550 SURVEILLANCE DATA FOR THE EPIDEMIOLOGY OF REPRODUCTIVE WASTAGE IN  
EARLY PREGNANCY  
Tyler, Carl W. Jr / Swartz, Donald P. Columbia U New York, N.Y.  
DHEW Contract(CDC) HSM-21-70-517 \$10,625; 06/70-06/71
- 551 SURVEILLANCE OF DATA FOR THE EPIDEMIOLOGY OF REPRODUCTIVE WASTAGE IN  
EARLY PREGNANCY  
Tyler, Carl W. Jr / Mishell, Daniel R. Jr Southern California, U of  
Los Angeles, California  
DHEW Contract(CDC) HSM-21-70-518 \$13,685; 06/70-06/71
- 552 EPIDEMIOLOGY OF REPRODUCTIVE LOSS IN EARLY PREGNANCY  
Tyler, Carl W. Jr / Freeman, Malcolm G. Emory U of Atlanta, Ga  
DHEW Contract(CDC) HSM-21-70-502 \$40,896; 09/70-09/71

#### Sterilization

- 553 A STUDY TO EVALUATE THE EFFECTIVENESS OF THE TATA GROUP OF COMPANIES  
(private sector) INCENTIVE PROGRAM FOR STERILIZATION  
/ Res & Marketing Services Bombay, India  
AID Other ; 11/69-04/70

#### MORTALITY

- 554 ANALYSIS OF COHORT MORTALITY  
Moriyama, Ivao M. Nat Ctr Hlth Statistics Rockville, Md  
DHEW Intramural \$5,000; /68- '71

- 555        LENGTH OF LIFE AND CAUSES OF DEATH IN A HETEROGENEOUS POPULATION:  
              Israel 1948-1966  
              Peritz, Eric    Central Bureau of Statistics    Jerusalem, Israel  
              DHEW PL-480(NCHS) 06-652-2 \$23,975(est)    04/68-04/71 \$71,926
- 556        FACTORS IN INFANT MORTALITY IN YUGOSLAVIA  
              Vukmanovic, Cedomir    Federal Inst of Public Hlth  
                                  Belgrade, Yugoslavia  
              DHEW PL-480(NCHS) 02-651-2 \$14,692(est)    05/64-06/71 \$102,845
- 557        CHILEAN MORTALITY  
              /    Dept of Public Hlth & Social Med, Chile, U of    Santiago, Chile  
              AID Other 513-11-570-237        ;    09/68-09/70 \$12,000

#### MIGRATION

- 558        ANALYSIS OF MIGRATION FROM EASTERN KENTUCKY  
              Anschel, Kurt R.    Kentucky, U of    Lexington, Ky  
              DHEW Contract(NICHD) NIH 70-2198 \$71,600;    06/70-12/71 \$71,600
- 559        MIGRATION OF THE FARM AND RURAL POPULATION  
              Beale, Calvin L.    Economic Res Serv    Washington, D.C.  
              USDA Intramural ED1-2-54-00 \$25,000;
- 560        RURAL-URBAN MIGRATION AND ITS POVERTY DIMENSIONS  
              Bowles, Gladys K.    Economic Res Serv    Washington, D.C.  
              USDA Contract EDI-2-11-01-X1 06/68-12/71 \$192,000
- 561        CHANGES IN THE SOCIOECONOMIC STATUS OF FAMILIES IN LOW-INCOME  
                                  HIGH-MIGRATION RURAL AREAS (including changes in the  
                                  employment of women)  
              Charlton, J. L.    Arkansas, U of    Fayetteville, Arkansas  
              USDA Grant ARK-00693 \$21,589;    03/68-02/73 \$57,003
- 562        PROBLEMS OF POPULATION DECLINE IN RURAL AREAS  
              Gardner, B. L.    N Carolina State U    Raleigh, N.C.  
              USDA Grant NC-03231 \$6,733;    04/69-04/74 \$29,495
- 563        MIGRATION PATTERNS OF THE TENNESSEE POPULATION  
              Leuthold, F. O.    Tennessee, U of    Knoxville, Tenn  
              USDA Grant TEN-00274 \$14,170;    03/68-07/72 \$52,982
- 564        MOBILITY OF THE POPULATION OF THE UNITED STATES  
              Long, Larry    U.S. Bureau of the Census    Suitland, Md  
              COMMERCE Intramural \$5,000;    07/69-06/70 \$10,000
- 565        THE RELATION OF POPULATION TO SOCIAL CHANGE IN THE NORTH CENTRAL  
                                  REGION, 1960-70  
              Marshall, D. G.    Wisconsin, U of    Madison, Wis  
              USDA Grant WIS-00713 \$11,054;    11/63-06/73 \$188,790
- 566        DEVELOPING A FORECASTING MODEL OF POPULATION MOBILITY  
              Morrison, Peter A.    Pennsylvania, U of    Philadelphia, Pa  
              DHEW Grant MH-17175        ;    06/69-05/71 \$6,073

- 567 THE ABSORPTION OF MIGRANTS  
Shannon, Lyle W. Iowa, U of Iowa City, Iowa  
DHEW Grant MH-18196 \$7,200;
- 568 CONSEQUENCES OF CHANGING SOCIAL ORGANIZATION IN THE NORTHEAST  
(relate migration, land and resource use to control  
structure)  
Sizer, L. M. West Virginia U Morgantown, West Virginia  
USDA Grant WVA-00186 \$10,700; 09/64-06/73 \$73,993
- 569 INTRAMETROPOLITAN RESIDENTIAL MOBILITY  
Van Arsdol, Maurice D. Southern California, U of Los Angeles, Cal  
NSF Grant GS-2847 \$23,500; 01/70-01/72 \$47,000
- 570 IN-MIGRATION AND URBAN GROWTH  
Weller, Robert H. Brown U Providence, Rhode Island  
NSF Grant GS-3078 \$7,250 (est); 06/70-06/72 \$14,500
- 571 FAMILY STRUCTURE AS RELATED TO MIGRATION, OCCUPATION, AND SOCIAL  
PARTICIPATION  
Wilkening, E. A. Wisconsin, U of Madison, Wisconsin  
USDA Grant WIS-01550 \$7,512; 07/68-06/71 \$45,692

#### MARRIAGE, DIVORCE AND FAMILY

- 572 FAMILY AND FERTILITY AMONG MEXICAN-AMERICANS  
Bean, Frank D. Texas, U of Austin, Texas  
DHEW Grant HD-4262 \$26,712; 06/69-05/71 \$61,625
- 573 RELATIONSHIPS BETWEEN CHILDBEARING MOTIVES AND MOTHERING  
Bernard, Viola W. Columbia U New York, N.Y.  
DHEW Grant MH-17113 ; 04/69-03/71 \$6,440
- 574 PSYCHOSOCIAL DYNAMICS - CHILDBEARING AND FAMILY PLANNING  
Bernard, Viola W. Columbia U New York, N.Y.  
DHEW Grant MH-16494 ; 01/69-08/72 \$252,8
- 575 SOCIAL DETERMINANTS OF LOW NATALITY IN INDUSTRIALIZED COUNTRIES  
(cultural determinants of family size)  
Day, Lincoln H. Yale U New Haven, Conn  
NSF Grant GS-2692 \$20,600; 09/69-09/70 \$28,000
- 576 FEMALE MARITAL, PARENTAL, AND CAREER ROLE CONCEPTIONS AMONG FARM  
AND NON-FARM WOMEN  
Featherman, D. L. Wisconsin, U of Madison, Wisconsin  
USDA Grant WIS-01697 \$4,148; 07/70-
- 577 FACTORS AFFECTING AGE AT MARRIAGE IN RURAL NEBRASKA  
Gingles, R. Nebraska, U of Lincoln, Nebraska  
USDA Grant NEB-93-006 ; 07/67-12/69 \$2,088
- 578 MARRIAGE, FERTILITY, AND CHILDS PACING: JUNE 1965 (Current Population  
Reports, Series p-20, No. 186, issued August 6, 1969)  
Grabill, Wilson H. U.S. Bureau of the Census Suitland, Md  
COMMERCE Intramural 34-0600 \$1,950; 06/65-08/69 \$90,000



- 579 FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES  
(including family structure)  
Kuvlesky, W. P. Texas A & M U College Station, Texas  
USDA Grant TEX-02906 \$9,000; 08/69-06/72 \$50,706
- 580 CEBU FAMILY HEALTH PROJECT (factors influencing size of Filipino families)  
Liu, William Notre Dame, U of Notre Dame, Ind  
AID Contract 492-220-3-80008 ; 09/67-07/70 \$179,045
- 581 FACTORS AFFECTING PATTERNS OF LIVING IN DISADVANTAGED FAMILIES  
(including size of family)  
Marshall, D. G. Wisconsin, U of Madison, Wisconsin  
USDA Grant WIS-01612 \$5,256; 07/69-06/71 \$10,512
- 582 RELATIONSHIP BETWEEN PARENTAL SATISFACTION AND CHILDREN'S  
ROLE BEHAVIOR  
Maxwell, J. W. Virginia Poly Inst Blacksburg, Va  
USDA Grant VA-0616096 ; 02/68- \$8,039
- 583 MARCH SUPPLEMENT OF THE CURRENT POPULATION SURVEY  
Norton, Arthur J. U.S. Bureau of the Census Suitland, Md  
COMMERCE Intramural 340600 \$30,800; 03/69-05/70 \$50,000
- 584 CORRELATION OF FAMILY SIZE AND EXPECTED FAMILY SIZE  
Nuttall, Ronald L. Boston Coll Chestnut Hill, Mass  
DHEW Contract(NICHD) NIH 70-2195 \$47,189;
- 585 AGE AT MARRIAGE AND RELATED VARIABLES  
Nye, I. Washington State U Pullman, Washington  
USDA Grant WNP-01745 \$1,188; 02/63-01/70 \$56,496
- 586 MODERN AND TRADITIONAL IRAN (evolution of family structure)  
Paydarfar, Ali A. American Inst for Res Silver Spring, Md  
NSF Grant GS-2937 \$44,900; 03/70-03/71
- 587 DEFINITIONS AND PRECEPTIONS OF MALE-FEMALE ROLES  
Scanlon, John Indiana U Bloomington, Ind  
DHEW Contract(NICHD) NIH 70-2192 \$207,260; 06/70-06/71 \$207,260
- 588 MARITAL DISSOLUTION AND THE FERTILITY OF REMARRIAGE  
Sweet, James A. Wisconsin, U of Madison, Wis  
DHEW Contract(NICHD) NIH 70-2197 \$34,773; 06/70-06/71 \$34,773
- 589 STUDY OF FAMILY SIZE AND FAMILY GROWTH  
Vekemans, Roger L.A. Ctr Population & Fam Studies Santiago, Chile  
AID Grant 598-15-570-460 \$350,000; /65- \$1,340,000
- 590 SURVEY OF RECENTLY MARRIED PERSONS IN NORTH CAROLINA  
Wells, Bradley H. / Sirken, Monroe G. NCHS Rockville, Md  
DHEW Intramural/Contract(NCHS) \$30,000; /67- /71 \$75,000
- 591 FAMILY STRUCTURE AND POPULATION TRENDS IN TAIWAN  
Wolf, Arthur P. Stanford U Stanford, Calif  
NSF Grant GS-3041 \$46,150(est); 07/70-07/72 \$92,300
- 592 THE ROLE OF WOMEN IN SOCIETY  
/ Dept of Sociology, Catholic U Santiago, Chile

AID Other 513-11-580-236 ; 10/69-03/70 \$7,300

#### POPULATION POLICY

- 593 SITUATION REPORTS ON POPULATION PROBLEMS POLICIES AND PROGRAM  
Brown, Harrison California Inst of Technology Pasadena, Calif  
AID Contract 931-11-570-858 ; 07/69-06/72
- 594 GOALS AND CONDITIONS OF POPULATION CONTROL  
Davis, Kingsley California, U of Berkeley, Calif  
DHEW Grant HD-4602 \$73,896; 11/69-10/74 \$317,294
- 595 POPULATION/ECONOMIC GROWTH ANALYSIS AND PRESENTATION (for political  
and economic policy makers in developing countries)  
Enke, Stephen General Electric Co. - TEMPO Santa Barbara, Calif  
AID Contract 931-11-570-016 ; 06/68-12/71
- 596 USIA AND POPULATION MATTERS ABROAD  
Wechsler, Irving / Marcy, Mildred USIA Washington, D.C.  
USIA Intramural

#### RESEARCH REVELANT TO THE DELIVERY OF FAMILY PLANNING SERVICES

- 597 THE ROLE OF THE FAMILY PHYSICIAN IN FAMILY PLANNING  
Cartwright, Ann Inst of Community Studies London, England  
DHEW Grant (NCHSRD) CH-00266 \$840; 01/67-06/70 \$98,417
- 598 NEED FOR SUBSIDIZED FAMILY PLANNING SERVICES: 1969  
Dryfoos, Jay / Weinberg, David Plan Parenthood-World Pop  
OEO Contract TA-3 \$209,211; 06/70-06/71
- 599 IMPROVEMENT OF POPULATION PROGRAM AND POLICY DESIGN  
Freyman, Moe W. North Carolina, U of Chapel Hill, N.C.  
AID Contract 931-11-570-856 ; 06/69-06/75
- 600 POPULATION ASSISTANCE DECISION MAKING SEARCH  
Lindsey, Quentin Res Triangle Inst Res Triangle Park, N.C.  
AID Contract 298-15-590-019 \$277,000;
- 601 EVALUATION OF MOBILE TEAMS AND OTHER FAMILY PLANNING PROGRAMS  
Metiner, Turgut Government of Turkey Ankara, Turkey  
AID Other 277-TF-23-540-1013 ; 04/67-03/71
- 602 POPULATION AWARENESS EDUCATION THROUGH CURRICULUM IMPROVEMENTS  
Paik, Hyun Ki Central Educ Research Inst Seoul, Korea  
AID Other ; 06/70-07/71
- 603 FAMILY PLANNING PROGRAM IMPACT STUDY  
Robin, Gerald Nat Analysts Phila, Pa

- OEQ/DHEW Contract 800-5182 \$637,081/\$105,000; 06/70-06/72
- 604 COST-BENEFIT ANALYSIS OF PILOT FAMILY PLANNING PROGRAMS  
Robinson, Warren C. Pennsylvania State U University Park, Pa  
AID Contract 931-11-570-806 ; 03/68-06/71
- 605 DANFA RURAL HEALTH FAMILY PLANNING PROJECT  
Sai, Fred T. Ghana, U of Ghana  
AID Contract 641-11-580-055 \$825,000; 03/70-07/76 \$846,000
- 606 EVALUATION STUDIES OF INTERNATIONAL POST PARTUM FAMILY PLANNING  
PROGRAM  
Schubeck, Frank Population Council New York, N.Y.  
AID Contract 931-17-580-479 ; 01/67-12/70 \$500,000
- 607 EVALUATION MATERNAL CHILD HEALTH PROGRAM  
Stycos, Mayone Cornell U Ithaca, N.Y.  
AID Contract 522-T-211 ; 08/70-11/70
- 608 ACCEPTANCE OF CONTRACEPTIVES DISTRIBUTED THROUGH COMMERCIAL CHANNELS  
Suner, Erol Development Fdn of Turkey Ankara, Turkey  
AID Other 277-15-990-000 \$8,330; 06/69-10/70 \$9,330
- 609 STUDY OF INTEGRATED FAMILY PLANNING AND RURAL HEALTH SERVICES  
Taylor, Carl E. Johns Hopkins U Baltimore, Md  
AID Contract 298-15-995-017 ; 06/69-06/74
- 610 UTILIZATION OF FAMILY PLANNING SERVICES  
Vincent, Clark E. Bowman Gray Sch of Med Winston-Salem, N.C.  
AID Contract 931-17-580-510 ; 06/69-06/71 \$262,000
- 611 METHODOLOGY FOR EVALUATING FAMILY PLANNING PROGRAMS  
Wishik, Samuel M. Columbia U New York, N.Y.  
AID Contract 931-11-580-855 ; 06/70-06/72
- 612 FIELD STUDY OF POPULATION PRESSURES IN INDIA  
Wyon, John B. Ctr for Population Studies Andhra Pradesh, India  
DHEW PL-480 (Fogarty) 01-051-1 ; \$176,710
- 613 AN ANALYSIS OF WOMEN ACCEPTORS OF FAMILY PLANNING SERVICES  
/ Population Ctr San Carlos, U of Guatemala  
AID Other ; 01/70-06/70
- 614 DEMOGRAPHIC/EVALUATIVE STUDIES  
/ Philippines, U of Population Inst & Chicago, U of  
AID Other 492-220-3-00046 ; 01/70-01/72
- 615 EVALUATION OF FAMILY PLANNING CLINICS (DOMINICAN REPUBLIC)  
/ Dominican Nat Population & Fam Council Dominican Republic  
AID Other ; 01/70-06/70
- 616 FAMILY PLANNING SERVICES AND ABORTION PREVENTION (CHILE)  
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile  
AID Other 513-11-570-237 ; 10/69-03/71 \$14,500
- 617 COMPREHENSIVE MATERNAL/CHILD HEALTH AND FAMILY PLANNING  
/ Nat Hlth Serv & Med Sch of Catholic U Santiago, Chile  
AID Other 513-11-580-243 ; 06/69-12/71 \$71,000

- 618 RURAL HEALTH SERVICES AND ABORTION, MORTALITY AND FERTILITY  
/ Dept of Public Hlth & Social Med, Chile, U of Santiago, Chile  
AID Other 513-11-570-237 ; 12/68-12/71 \$125,000
- 619 POSTPARTUM FOLLOWUP PROGRAM  
/ Nat Fam Plan Board Jamaica  
AID Other 532-11-580-030 ; 03/70-02/72 \$32,500
- 620 TO RESEARCH, DEVELOP AND PREPARE THE CREATIVE INPUTS OF THE  
NIRODH (condom) PUBLICITY CAMPAIGN AND DEVELOP A MEDIA  
STRATEGY AND MARKETING PLAN  
/ Clarion McCann Advertising Services Ltd. Calcutta, India  
AID Contract 386-1506 ; 10/69-07/70 \$757,000
- 621 CLINICAL RECORD CARD PROJECT (IUD)  
/ Fam Plan Council Pakistan  
AID Other ; /68-
- 622 FAMILY PLANNING - ORAL PILLS  
/ Government of India, Dept of Fam Plan India  
AID Other 386-51-580-332-3 ; /69- \$200,000
- 623 THE ROLE OF THE MIDWIFE  
/ Dept of Hlth Promotion, Nat Hlth Serv Chile  
AID Other 513-11-570-239 ; 10/69-12/70 \$1,500
- 624 NATIONAL IMPACT SURVEY  
/ Fam Plan Council Pakistan  
AID Other ; /68- /70 \$209,000
- 625 COSTA RICAN DEMOGRAPHIC ASSOCIATION RESEARCH PROJECTS  
/ Costa Rican Demographic Association Costa Rica  
AID CR-144&CR-155 ; 05/68- \$9,800
- 626 STUDY OF ENTITIES ENGAGED IN FAMILY PLANNING ACTIVITIES IN TONDO  
/ Inst of Philippine Cult, Ateneo de Manila U Manila, Philippines  
AID Other ; 10/69-04/70

## DATA GENERATION AND COMPILATION ACTIVITIES

- 627 DEMOGRAPHIC SERVICES - INTERNATIONAL DEMOGRAPHIC STATISTICS CENTER  
Baum, Samuel U.S. Bureau of the Census Suitland, Md  
AID PASA 931-11-570-810 ; 03/68- \$967,000
- 628 CENSUS AND HOUSEHOLD SURVEY  
Diaz de Bedoya, Jose Ministry of Finance Asuncion, Paraguay  
AID Grant 526-11-580-085 ; 06/70-12/74
- 629 MARRIAGE REGISTRATION AREA ESTIMATES  
Grymes, Robert U.S. Bureau of the Census Suitland, Md  
DHEW R Agremt(NCHS) 34-7281 \$2,700; 10/69-02/70 \$7,000
- 630 COLLECTION AND ANALYSIS OF NATIONAL MARRIAGE AND DIVORCE STATISTICS  
Hetzel, Alice Nat Ctr for Hlth Statistics Rockville, Md

- DHEW Intramural \$240,000
- 631 COLLECTION AND ANALYSIS OF NATIONAL MORTALITY STATISTICS  
Israel, Robert A. Nat Ctr for Hlth Statistics Rockville, Md  
DHEW Intramural \$760,000
- 632 LIBERIAN POPULATION GROWTH SURVEY (demographic household survey)  
Massalee, Abel Dept of Planning & Econ Affairs Monrovia, Liberia  
AID Grant 669-11-570-109 \$207,000; 02/69-02/74 \$405,000
- 633 FOREIGN DEMOGRAPHIC ANALYSIS  
Myers, Paul F. U.S. Bureau of the Census Suitland, Md  
Various Govt Agencies R. Agrements \$946,000
- 634 COLLECTION AND ANALYSIS OF NATIONAL NATALITY STATISTICS  
Patterson, John Nat Ctr for Hlth Statistics Rockville, Md  
DHEW Intramural \$390,000
- 635 DEMOGRAPHIC STUDY OF PARAGUAY  
Silvero, Arnaldo Tech Secretariat for Planning Asuncion, Paraguay  
AID Grant 526-11-580-085 \$36,000; 06/70-06/72
- 636 NATIONAL DEMOGRAPHIC RESEARCH IN TUNISIA  
Tarifa, Chadli Dept of Demographic Statistics Tunis, Tunisia  
DHEW PL-480(NCHS) 07-651-2 \$63,482; 02/68-02/71 \$157,291
- 637 NATIONAL DEMOGRAPHIC RESEARCH  
/ Nat Ctr for Hlth Statistics, Dept Hlth, Educ & Welfare Tunisia  
AID Other 07-651-2 \$63,482; 02/68-02/71 \$157,291
- 638 IMPROVEMENT OF DEMOGRAPHIC STATISTICS  
/ Population Census Organization Pakistan  
AID Other ; /70- /73
- 639 VITAL REGISTRATION PROJECT  
/ Fam Plan Council Pakistan  
AID Other ; /69- \$111,300
- 640 DEMOGRAPHIC SAMPLE SURVEY (GHANA)  
/ Sociology Department, Ghana, U of Ghana  
AID Grant 641-15-570-051 ; 07/68-12/70 \$163,000
- 641 CURRENT POPULATION SURVEY , INCLUDING POPULATION TRENDS AND SPECIAL  
REPORTS  
/ U.S. Bureau of the Census Suitland, Md  
Labor/Commerce R. Agreent/Intramural \$2,700,000/\$2,079,000;  
07/69-06/70
- 642 ASSISTANCE FOR ROCAP AND IMPROVED STATISTICS AND CENSUS  
/ Regional Organization for Central America - ROCAP  
AID Grant 596-15-570-023 ; /67-
- 643 THE 19TH DECENNIAL CENSUS OF POPULATION & HOUSING  
/ U.S. Bureau of the Census Suitland, Md  
Commerce Intramural \$121,438,000; 12/63-12/72 \$216,220,000  
(Congressional Approp)

## INSTITUTIONAL PROGRAMS

- 644 DEVELOPMENT CENTRE POPULATION PROJECT  
Coleman, George Jr OECD Paris, France  
AID Grant 931-11-570-827 ; /68- /72
- 645 INSTITUTIONAL GRANT TO UNIVERSITY OF MICHIGAN  
Corsa, Leslie Sch of Public Hlth, Michigan, U of Ann Arbor, Mich  
AID Grant 931-11-570-110 ; 06/68-06/73
- 646 ASIAN POPULATION DYNAMICS STUDY (institutional support)  
Demeny, Paul East-West Center, Hawaii, U of Honolulu, Hawaii  
AID Contract 498-11-570-200 ; 06/68-06/72
- 647 INSTITUTIONAL GRANT TO THE UNIVERSITY OF NORTH CAROLINA -  
(Development of Multidisciplinary Program Family Planning  
and Population)  
Freyman, Moye W. North Carolina, U of Chapel Hill, N.C.  
AID Grant 931-11-570-102 ; 05/68-05/73
- 648 A POPULATION RESEARCH LABORATORY AT BROWN UNIVERSITY (Population  
Studies and Training Center)  
Goldstein, Sidney Brown U Providence, R.I.  
DHEW Grant (NCHSRD) HS-00246 \$154,414; 07/66-06/73 \$855,827
- 649 RESEARCH CENTER FOR STATISTICAL METHODS IN DEMOGRAPHY (CIMED) OF THE  
NATIONAL STATISTICAL DEPARTMENT (DANE) Bogota, Columbia  
Linder, Forrest E. / Losee, Gray North Carolina, U of  
Chapel Hill, N.C.  
AID Grant \$236,400; 07/70-09/71 \$236,400
- 650 LABORATORIES FOR POPULATION STUDIES (network established in  
collaboration with less-developed countries)  
Linder, Forrest E. North Carolina, U of Chapel Hill, N.C.  
AID Contract 931-11-570-861 ; 06/69-06/72 \$761,000
- 651 RESEARCH AND ANALYSIS OF POPULATION GROWTH IN LATIN AMERICA  
Livingston, Charles Population Council New York, N.Y.  
AID Grant 598-15-570-456 \$1,115,000; /65- \$2,800,000
- 652 LATIN AMERICA DEMOGRAPHIC CENTER  
Miro, Carman Demographic Ctr Santiago, Chile  
AID Grant 598-15-570-459 ; /66-
- 653 INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION  
Morales, Julio Manuel Mat U of Asuncion Asuncion, Paraguay  
AID Grant 526-11-580-085 \$6,500; 06/69- /73 \$121,500
- 654 INSTITUTIONAL GRANT TO JOHNS HOPKINS UNIVERSITY  
Taylor, Carl E. Johns Hopkins U Baltimore, Md  
AID Grant 931-11-570-101 ; 06/68-01/73
- 655 POPULATION DYNAMICS UNIT (to develop manpower and to carry out  
population research in selected overseas areas)  
Taylor, Carl E. Johns Hopkins U Baltimore, Md

- AID Grant 931-11-570-813 ; 07/65-06/70
- 656 A STUDY OF HEALTH SERVICES RESEARCH AND TRAINING  
Vukmanovic, Cedomir Fed Inst Public Hlth Belgrade, Yugosl  
DHEW PL-480 (NCHSRD) 02-705-2 ; 07/69-06/73 \$718,417
- 657 INSTITUTIONAL SUPPORT TO POPULATION AND SOCIAL RESEARCH CENTER,  
Yamarat, Charas Population & Social Res Ctr, Mahidol U Thailand  
AID Other 493-11-580-209 \$2,000; /69- /74 \$26,000
- 658 DEMOGRAPHIC RESEARCH CENTER (Population Laboratory)  
/ Statistical Division-Secretariat for Planning Rabat, Morocco  
AID Grant 608-11-570-109 \$200,000; 06/70-06/75
- 659 INSTITUTIONAL SUPPORT TO DEMOGRAPHIC TRAINING AND RESEARCH CENTER  
/ Demographic Training Ctr Chembur, Bcmby, India  
Aid Other ; \$156,000
- 660 FAMILY PLANNING - BIOMEDICAL RESEARCH (India)  
/ Various Centers India  
AID Other 386-51-580-332-11
- 661 INSTITUTIONAL SUPPORT TO FAMILY PLANNING COUNCIL FOR USE IN MEDICAL  
COLLEGES  
/ Fam Plan Council Pakistan  
AID Other ; /69-
- 662 POPULATION AND DEMOGRAPHY PROGRAM  
/ Venezuelan Ctr for Population & Family Venezuela  
AID Other 529-15-580-034 ; 01/67-03/70 \$88,000
- 663 DEMOGRAPHIC STUDIES  
/ Ministry of Hlth, Population Office Costa Rica  
AID Other CR-102 ; 10/66- \$18,800
- 664 HEALTH EDUCATION-POPULATION  
/ Population Study Ctr Ecuador  
AID Other 518-15-570-094 ; 08/68-08/69 \$13,000

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## A P P E N D I X - A

### CLASSIFICATION

#### FOR

#### FEDERAL INVENTORY OF POPULATION RESEARCH: FY 1970

#### I. BIOLOGICAL SCIENCES

##### A. Reproductive Processes and Contraceptive Development

###### 0. Multiple or unspecified

###### 1. Embryonic development of the reproductive system

###### 2. Development and function of the reproductive system from birth through puberty

###### 3. Female fertility; estrous and menstrual cycles

(including oogenesis, ovulation, ovum transport, corpus luteum function, cyclical changes in structure and function of ovary, oviduct, uterus and vagina; endocrine and neuroendocrine aspects of these processes; related pathological conditions and infertility)

###### a. Multiple or unspecified

###### b. Ovarian factors, including oogenesis, ovulation, corpus luteum; cyclic changes in structure and function of ovary

###### c. Oviductal, uterine and vaginal factors

###### 4. Male fertility

(including spermatogenesis, sperm morphology and function, structure and function of the organs of the male reproductive tract; endocrine and neuroendocrine aspects of male reproductive function; related pathological conditions and infertility)

###### 5. Fertilization, including immediate prefertilization processes

(including transport of the unfertilized ovum, sperm transport in the female reproductive tract, sperm capacitation, sperm penetration of the ovum; the role of secretions, immunologic phenomena, and hormones in these processes)

6. Zygote transport, preimplantation development and implantation

(including transport of the fertilized ovum, early cleavage, blastocyst development, endometrial changes in implantation, endometrial-trophoblast interaction)

7. Reproductive endocrinology

(including general studies of the biochemistry and mode of action of pituitary and placental gonadotrophins, hypothalamic releasing and inhibiting factors for gonadotrophins, and sex steroids in male and female) (not including studies concerned with the endocrine control of specific functions in Items 1 through 6)

a. Multiple or unspecified

b. Neuroendocrinology

(including hypothalamic releasing and inhibiting factors for gonadotrophins, the function of the pineal in reproduction, and the role of pheromones)

c. Pituitary and placental hormones (gonadotrophins, prolactin, oxytocin)

d. Steroid hormones (androgens, estrogens, progesterone)

8. Pharmacological studies of natural or synthetic agents (other than presently used contraceptives) affecting reproduction and fertility

B. Fertility Regulation Techniques Presently In Use

(including mechanism of action, effects of dosage or design, efficacy, adverse effects)

0. Multiple or unspecified fertility regulation techniques

1. Contraceptives in use

a. Multiple or unspecified

b. Steroid contraceptives

c. Intrauterine devices

d. Other

(including rhythm, diaphragm, condom, etc.)

2. Sterilization

(including vasectomy, tubal ligation)

3. Induced abortion

(including surgical techniques, abortifacients)

II. ANIMAL BEHAVIOR AND ECOLOGY

A. Animal Reproductive Behavior

B. Animal Population Ecology; Effects of Population Density

III. SOCIAL SCIENCES

A. Demography and Sociology

0. Multiple or unspecified

1. Population growth or change

(including changes in population size and the basis of their estimation; trends and projections including methodology)

2. Population characteristics and distribution

(including age, sex, place of birth, residence, literacy or educational attainment, religious affiliation, social status or condition, race or ethnic origin, color, language, employment status, occupation and industry, income and wealth; regional and spatial distribution, political and geographical subdivisions, urban-rural pattern, density, ecology)

3. Fertility

a. Multiple or unspecified

(including fecundity and sterility, natural increase, differentials and determinants and sex education)

b. KAP studies and contraceptive practices

c. Out-of-wedlock births

d. Induced abortion

e. Sterilization



4. Mortality
  5. Migration
  6. Marriage, divorce and the family  
(including family composition and size, status of women)
  7. Population policy  
(including religious, ethical and moral issues involved  
in population planning)
- B. Research Relevant to the Delivery of Family Planning Services
  - C. Data Generation and Compilation Activities  
(primarily Bureau of the Census and Bureau of Labor Statistics  
activities)
- IV. INSTITUTIONAL PROGRAMS

# A P P E N D I X - B

Table 1. Population Research Projects Supported by Federal Agencies,  
During FY '70, by Source of Funds

(Thousands of dollars)

Source of funds <sup>a/</sup>	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
GRAND TOTAL. . . . .	667 <sup>b/</sup>	543 <sup>b/</sup>	\$163,334
Agriculture, Department of	28	24	489
Atomic Energy Commission	3	3	75
Commerce, Department of	5	5	123,544
Health, Education and Welfare, Department of	475	456	23,038
Housing and Urban Development, Department of	1	1	195
Labor, Department of	1	1	2,700
National Science Foundation	21	21	491
Office of Economic Opportunity	2	2	846
State, Department of - Agency for International Development	108	29	11,010 <sup>c/</sup>
U. S. Information Agency	3	-	-
Veterans Administration	19	-	-
Other <sup>d/</sup>	1	1	946

<sup>a/</sup> All the projects submitted by the Department of the Interior and the National Aeronautics and Space Administration were excluded from the inventory because they were not relevant to population research as defined in this report.

<sup>b/</sup> The number of projects, and the number of projects reporting funds, differ from the totals shown in Table 2 by three and two respectively. These differences arise from the multiple support of individual projects.

<sup>c/</sup> This amount includes only funds which have been obligated during FY '70. No funds are shown for awards in which the project has only a partial research component.

<sup>d/</sup> A project conducted by the Bureau of the Census, Department of Commerce which was jointly supported by several agencies.

# A P P E N D I X - C

**Table 2. Population Research Projects Supported by Federal Agencies,  
During FY '70, by Subject Area**

(Thousands of dollars)			
Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
GRAND TOTAL. . . . .	664	541	\$163,334
BIOLOGICAL SCIENCES, TOTAL	442	405	\$ 25,910
Reproductive Processes and Contraceptive Development, Total	382	359	21,849
Multiple or unspecified	24	22	2,312
Embryonic development of the reproductive system	6	6	165
Development and function of the reproductive system from birth through puberty	3	3	62
Female fertility; estrous and menstrual cycles, total	72	65	2,290
Multiple or unspecified	9	7	243
Ovarian factors	27	24	797
Oviductal, uterine and vaginal factors	36	34	1,250
Male fertility	52	47	1,722
Fertilization	34	34	1,262
Zygote transport, preimplantation development and implantation	38	37	1,057
Reproductive endocrinology, total	140	135	6,954
Multiple or unspecified	32	30	2,405
Neuroendocrinology	34	32	1,164
Pituitary and placental hormones	27	27	1,252
Steroid hormones	47	46	2,133
Pharmacological studies (other than presently used contraceptives) affecting reproduction and fertility	13	10	6,025

# A P P E N D I X - C

Table 2. Population Research Projects Supported by Federal Agencies,  
During FY '70, by Subject Area  
(Continued)

(Thousands of dollars)			
Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
BIOLOGICAL SCIENCES, (CONT'D.)			
Fertility Regulation Techniques Presently in Use, Total	60	46	\$ 4,061
Contraceptives, total	59	46	4,061
Multiple or unspecified	3	2	21
Steroid contraceptives	49	39	3,586
Intrauterine devices	6	5	454
Other	1	-	-
Sterilization	1	-	-
ANIMAL BEHAVIOR AND ECOLOGY, TOTAL	26	23	726
Animal Reproductive Behavior	19	17	571
Animal Population Ecology; Effects of Population Density	7	6	155
SOCIAL SCIENCES, TOTAL	175	107	134,984
Demography and Sociology, Total	128	90	3,996
Multiple or unspecified	3	3	33
Population growth or change	20	17	570
Population characteristics and distribution	9	7	344
Fertility, total	53	32	1,860
Multiple or unspecified	28	20	1,244
KAP studies and contraceptive practices	13	3	281
Out-of-wedlock births	4	3	156
Induced abortion	7	6	179
Sterilization	1	-	-
Mortality	4	3	44
Migration	14	12	211

Table 2. Population Research Projects Supported by Federal Agencies,  
During FY '70, by Subject Area  
(Continued)

(Thousands of dollars)			
Subject area	Total, all agencies		
	Number of research projects	Number of projects with funds	Funds
SOCIAL SCIENCES, (CONT'D.)			
Demography and Sociology, (Cont'd.)			
Marriage, divorce and the family	21	15	\$ 860
Population policy	4	1	74
Research Relevant to the Delivery of Family Planning Services	30	6	2,062
Data Generation and Compilation Activities	17	11	128,926
INSTITUTIONAL PROGRAMS	21	6	1,714
GRAND TOTAL. . . . .	664	541	\$163,334